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STATISTICAL SUPPLEMENT

DEPARTMENT OF HEALTH

STATE OF HAWAII

This is the statistical supplement to the narrative report published in a separate volume.

Anyone needing additional information may write directly to the program concerned.

1985*

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Cover photo by George H. Tokuyama, State Registrar
View of carps in pond at the Pagoda Floating Restaurant, Honolulu, Hawaii

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*Unless otherwise stated, data included in this report are for the calendar year 1985. Publication date, September 1986.

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RESEARCH AND STATISTICS OFFICE

VITAL STATISTICS SUMMARY, 1985

Population

The population of the state of Hawaii rose to 1,053,889, 9.2 percent above the 1980 population figure of 964,691, and 1.6 percent above the revised 1984 population total of 1,037,206.

The major increases in population since the 1980 census occurred in the neighbor island counties of Maui (20.2 percent), Hawaii (18.6 percent), and Kauai (14.6 percent). The gain in population for Honolulu County during the same period was 6.8 percent. Maui County led all other counties in population growth during the past year with an increase of 2.1 percent.

Life Expectancy at Birth

The average remaining lifetime commonly called the expectation of life at birth is a measure of comparative longevity. Figures released by the National Center for Health Statistics, U. S. Public Health Service based on 1979-81 mortality statistics show that Hawaii ranked first among all the 50 states. The expectation of life at birth for Hawaii was 77.02 years for both sexes combined, 74.08 years for males, and 80.33 years for females. The comparable figures for the nation as a whole was 73.88 years, 70.11 years, and 77.62 years. Expectation of life for Hawaii for the 1969-71 period was 73.60 years for both sexes, 71.02 years for males, and 76.79 years for females.

Births

The total number of live births recorded for the state of Hawaii in 1985 continued its downward trend after reaching a peak of 19,164 in 1983. The 18,329 births recorded for 1985 was 2.3 percent below the 18,756 births recorded for 1984.

Births among residents totaled 18,267 in 1985, and 18,667 in 1984. The resident crude live birth rate was 17.3 per 1,000 resident population in 1985, and 18.0 in 1984.

The crude live birth rate of the nation as a whole was 15.7 per 1,000 population in 1985 and 1984.

With a crude live birth rate of 18.4 per 1,000 resident population, Maui County was the only geographic area with a rate above the state rate.

Seventy-eight percent of resident births occurred in Honolulu County in 1985. Based on the race of the mother, there were 5,774 Caucasian births, 3,875 Part-Hawaiian births, 2,944 Filipino births, and 2,460 Japanese births.

Multiple Live Births

There were 325 live multiple births recorded during 1985 for the state as compared to 334 for the year 1984. These multiple births constituted 1.8 percent for 1985 as well as for 1984.

There were 161 sets of twins who were born alive and 3 sets of twins in which one of the twins did not survive. There were no triplets in 1984 or 1985.

Low Birthweight Babies

A total of 1,042, or 5.8 percent, of the 17,946 single live births fell below the low-birthweight criterion of under 2,500 grams (5 pounds, 8 ounces). For 1984, 1,191, or 6.5 percent, of the single births were low-birthweight babies.

The median birthweight of the 17,946 single births for the year 1985 was 3,307 grams or 7 pounds, 5 ounces. Based on the race of the mother, the major ethnic groups with low-birthweight percents well above the state average were the Filipino women (8.3 percent), and the Negro women (9.7 percent).

Attendant at Birth

A total of 300 live births out of the 18,329 births recorded, or 1.6 percent, were born outside of a hospital during the year 1985. The figures were 269 births and 1.4 percent for the year 1984.

Of the 300 births mentioned above, 65 were delivered in small dispensaries by a physician. Of the 225 babies born outside of a facility, 12 were delivered by physicians, 10 by a midwife, 8 by naturopaths, and 195 by family members or some non-medical person.

Month of Prenatal Visit

Mothers who made their first prenatal visit to a physician during the first three months of pregnancy totaled 74.7 percent in 1985, as compared to 75.4 percent in 1984. Those mothers who made their first prenatal visit during the second trimester totaled 19.3 percent in 1985 and 19.2 percent in 1984, while those who postponed their first visit until the third trimester numbered 4.3 percent in 1985 and 4.2 percent in 1984. There were 130 mothers in 1985 who said they did not make any natal visits as compared to 102 in 1984.

Apgar Score

The Apgar score is a summary measure used to evaluate the newborn infant's overall physical condition at birth.

In 1985, 22.3 percent of the 1-minute scores and 87.3 percent of the 5-minute scores were 9 or 10. The comparable scores for the United States as a whole for 1982, which are the latest available, were 44.0 percent and 87.3 percent respectively.

In 1985, 2.4 percent of the babies born in the state were assigned 1-minute Apgar scores of 0 to 3, and 0.4 percent were assigned 5-minute Apgar scores of 0 to 3. Scores of 0 to 3 indicate a severely depressed status.

Illegitimate Live Births

The illegitimate live birth rate continued to remain high with 3,650 resident live births recorded in 1985 giving a rate of 199.8 per 1,000 live births, or 20.0 percent, of the 18,267 live births. The comparable figures for 1984 were 3,585 illegitimate births and an illegitimate birth rate of 192.1 per 1,000 live births.

The highest 1985 illegitimate birth rate was observed in Hawaii County (297.9 per 1,000 live births), followed by Maui County (234.0), and Kauai County (219.8). Honolulu County had an illegitimate live birth rate of 181.7 per 1,000 live births or 9.1 percent below the state average.

Standard Fetal Deaths

The resident standard fetal death ratio for the state was 80.6 per 1,000 live births for 1985 and 87.3 for 1984, a reduction of 7.7 percent. The ratios were based on 1,473 resident standard fetal deaths recorded in 1985 and 1,694 in 1984.

High ratios were observed in Hawaii County (89.7 per 1,000 live births), Kauai County (128.8), and 90.7 in Maui County. Honolulu County had a ratio of 74.6 per 1,000 live births.

The median age of women experiencing a fetal death was 28.2. Among the larger ethnic groups, the standard fetal death ratio was 9.9 per 1,000 live births for Filipino women, 9.5 for Part-Hawaiian women, 6.5 for Japanese women, and 5.7 for Caucasian women.

Elective Induced Abortions

The resident elective induced abortion (intentional termination of pregnancy) ratio for the state of Hawaii for 1985 was 310.4 per 1,000 live births, 9.8 percent above the 282.7 ratio for 1984. The number of resident elective induced abortions totaled 5,670 in 1985 and 5,277 in 1984.

Elective induced abortion ratios above the state average were found in Honolulu County (332.1 per 1,000 live births), and Honolulu City (486.3 per 1,000 live births).

Counties with ratios below the state average were Hawaii County (165.0), Kauai County (291.8), and Maui County (252.2).

The median age of women having an elective induced abortion was 24.2 years.

Resident Infant Deaths

Because of the substantial reduction in infant deaths in recent years, the resident infant death rate has tended to fluctuate from year to year. The infant death rate per 1,000 live births fell from 9.2 in 1984 to 8.7 in 1985 for the state of Hawaii. The infant death rate was 10.0 in 1983 and 8.5 in 1982. There were 159 resident infant deaths recorded in 1985, 186 in 1984, and 175 in 1983. For the nation as a whole the infant death rate was 10.6 in 1985 and 10.7 in 1984.

Counties with infant death rates below the state average included Hawaii County (5.9 per 1,000 live births), and Maui County (7.5 per 1,000 live births). The infant death rate for Maui Island was 6.4 per 1,000 live births in 1985.

Counties with infant death rates above the state average included Honolulu County (9.0 per 1,000 live births) and Kauai County (9.0).

Among the major ethnic groups, based on the race of mother, the lower rates were found among the Chinese women (4.2 per 1,000 live births), the Caucasian women (5.7), and the Japanese women (6.5). Infant deaths above the state average were found among the Part-Hawaiian women (9.5 per 1,000 live births), Filipino women (9.9), and Negro women (24.4).

The five leading causes of death among infants under one year of age (per 1,000 live births) were Immaturity (1.9), Congenital Anomalies of all types (2.3), Sudden Infant Death Syndrome (1.2), Perinatal Conditions other than Immaturity (0.9), and Respiratory Distress Syndrome (0.3).

The 1985 infant death rate for infants under one day of age was 3.9 per 1,000 live births while the neonatal death rate (infants under 28 days of age) was 5.9 per 1,000 live births.

Perinatal Mortality Rate

The 1985 resident perinatal mortality rate (infant deaths under one week of age plus standard fetal deaths of 20 weeks or more gestation divided by perinatal events--the sum of standard fetal deaths of 20 weeks or more gestation and all resident live births) for the state was 12.8 per 1,000 perinatal events. For 1984, the comparable rate was 12.5 per 1,000 perinatal events. The increase was due to a drop in the number of live births and no change in the number of perinatal deaths.

Deaths

The 6,116 resident and non-resident deaths registered in the state of Hawaii for 1985 was the highest number ever recorded excluding deaths of military personnel in 1941. The number of deaths registered for 1984 was 5,943.

The number of resident deaths for 1985 totaled 5,751, giving a crude death rate of 5.5 per 1,000 resident population for the state. The comparable figures for 1984 were a crude death rate of 5.4 per 1,000 resident population based on 5,571 deaths.

For the nation as a whole, the comparable crude death rates were 8.7 per 1,000 population in 1985 as well as in 1984.

Major geographic areas with crude death rates above the state death rate include Hawaii County (6.4 per 1,000 resident population and the city of Honolulu (6.5).

The median age at death for the state of Hawaii was 71.9 years.

Leading Causes of Death

The first three leading causes of death remained in the same order as in prior years. The death rate for the leading cause of death, Diseases of the Heart, increased from 170.5 in 1984, to 176.5 in 1985. Ten years ago, the death rate for this category was 161.3 per 100,000 population.

Malignant Neoplasms, the second leading cause of death, continued its upward trend over the years increasing from a rate of 130.5 per 100,000 population in 1984, to 134.8 in 1985. A decade ago the death rate was 107.4, an increase of 25.5 percent.

Cerebrovascular disease, the third leading cause of death, remained at about the same level as a year ago and a decade ago. The rates were 40.8 per 100,000 population for 1985, 41.6 for 1984, and 44.7 for 1975.

There was a sudden upward rise in the Influenza and Pneumonia category where the death rate in 1985 (24.1 per 100,000 population) rose by 12.1 percent over the 1984 death rate of 21.5. This category was ranked as the fourth leading cause of death supplanting All Accidents.

All Accidents (including motor vehicle accidents), the fifth leading cause of death category, was followed by Diabetes Mellitus, which showed death rates of 14.3 per 100,000 population in 1984 and 13.1 in 1985.

There was a substantial drop of 22.4 percent in the death rate for the Suicide category between 1984 and 1985. There were 95 suicides recorded in 1985 and 120 in 1984 with respective death rates of 9.0 and 11.6 per 100,000 population. This category retained its rank as the seventh leading cause of death.

Liver Disease and Cirrhosis was ranked as the eighth leading cause of death in 1985. There were 78 deaths (7.4 deaths per 100,000 population) in 1985 and 74 deaths (7.1 deaths per 100,000 population) in 1984.

Perinatal conditions was ranked as the ninth leading cause of death in 1985 with 77 deaths and a death rate of 7.3 per 100,000 population. Ten years ago there were 106 deaths attributed to this condition yielding a death rate of 12.3 per 100,000 population. The reduction in the death rate for this cause of death was 41.7 percent.

The remaining leading causes of death were the Bronchitis, Emphysema and Asthma category (5.8 per 100,000 population); the Other Circulatory Disease category (5.6 per 100,000 population); the Congenital Anomalies category (5.2 per 100,000 population); and the Homicide category (3.4 per 100,000 population).

Maternal Deaths

For the second consecutive year two maternal deaths were recorded for the state. The maternal death rate was 1.1 per 10,000 live births for 1985 and 1984. The two maternal deaths occurred in Honolulu County.

Marriages

The number of marriages performed in the state in 1985 continued its record pace with 15,421 marriages recorded for the year as compared to 14,982 recorded the year before.

The crude marriage rate was 14.6 per 1,000 population in 1985 and 14.4 in 1984. The adjusted resident marriage rate after deducting 5,832 marriages of out-of-state couples was 9.1 per 1,000 resident population. The marriage rate for the nation as a whole was 10.2 per 1,000 population in 1985 and 10.5 in 1984.

Geographic areas with crude marriage rates above the state average included Kauai County (42.1 marriages per 1,000 population), and Maui County (26.4).

Divorces

The state divorce rate of 4.6 per 1,000 population for 1985 showed no change from that of the previous year. There were 4,887 divorces recorded in 1985 and 4,769 for 1984. The divorce rate for the nation as a whole was 5.0 per 1,000 population in 1985 and 4.9 in 1984.

Kauai County had a divorce rate of 4.0 per 1,000 population, the lowest among all the counties. The remaining counties had divorce rates ranging between 4.6 and 4.8 per 1,000 population. Forty-four percent of the 4,887 divorces involved no children under 18 years of age, 26 percent involved one child, and 29.7 percent involved two or more children.

TABLE 1

ESTIMATED POPULATION BY RESIDENCE AND MILITARY STATUS
State of Hawaii 1970, 1980 and 1985

	Resident Population				
	Total		Armed Forces[1]	Civilian[2]	
APRIL 1, 1970 (U.S. CENSUS)	Number	Percent	Number	Number	Percent
State Total	769,913	100.0	55,142	714,771	100.0
City & County of Honolulu	630,528	81.9	54,809	575,719	80.5
Hawaii County	63,468	8.2	140	63,328	8.9
Kauai County	29,761	3.9	134	29,627	4.1
Kauai Island	29,524	3.8	134	29,390	4.1
Niihau Island	237	0.0	-	237	0.0
Maui County[3]	46,156	6.0	59	46,097	6.5
Lanai Island	2,204	0.3	-	2,204	0.3
Maui Island	38,691	5.0	59	38,632	5.4
Molokai Island[3]	5,261	0.7	-	5,261	0.8
APRIL 1, 1980 (U.S. CENSUS)					
State Total	964,691	100.0	57,056	907,635	100.0
City & County of Honolulu	762,565	79.1	56,726	705,839	77.7
Hawaii County	92,053	9.5	152	91,901	10.2
Kauai County	39,082	4.0	153	38,929	4.3
Maui County[3]	70,991	7.4	25	70,966	7.8
Lanai Island	2,119	0.2	-	2,119	0.2
Maui Island	62,823	6.5	25	62,798	6.9
Molokai Island[3]	6,049	0.6	-	6,049	0.7

	REVISED POPULATION JULY 1, 1984		PROVISIONAL POPULATION JULY 1, 1985	
	Number	Percent	Number	Percent
State Total	1,037,206	100.0	1,053,889	100.0
City & County of Honolulu	802,351	77.4	814,646	77.3
Hawaii County	107,169	10.3	109,160	10.4
Kauai County[4]	44,167	4.3	44,781	4.2
Maui County[3]	83,519	8.0	85,302	8.1
Lanai Island	2,255	0.2	2,250	0.2
Maui Island	74,750	7.2	76,452	7.3
Molokai Island[3]	6,514	0.6	6,600	0.6

1/Includes Navy and Coast Guard crews
2/Includes military dependents (1970--61,858; 1980--64,023; 1985--67,100)
3/Includes Kalawao County (Kalaupapa 1970--172; 1980--144; 1985--144)
4/Estimate for Niihau Island: July 1, 1981--260; July 1, 1985--180)

Source: Hawaii State Department of Planning and Economic Development, Statistical Report 147; Preliminary Intercensal Estimates, 1970-1980, July 9, 1981; Provisional Estimates of the Population of Hawaii, 1980-84; DPED Preliminary estimates, June, 1986.

FIGURE 1
BIRTHS OCCURRING IN HAWAII 1900-1985

TABLE 2
LIVE BIRTHS BY PLACE OF OCCURRENCE REALLOCATED TO PLACE OF RESIDENCE AND RACE OF CHILD
STATE OF HAWAII, 1985

GEOGRAPHIC AREA	PLACE OF OCCURRENCE	BIRTH BY PLACE OF RESIDENCE		RACE OF CHILD													
		NO.	RATE*	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNESE	OTHER	UNKNOWN
TOTAL RECORDED	18329	18329	17.4	4409	60	5487	699	2708	2330	142	321	490	902	172	62	467	
STATE OF HAWAII	18329	18267	17.3	4382	60	5485	695	2703	2328	142	316	487	897	172	62	458	
COUNTY OF HAWAII	1823	1973	17.2	356	12	885	21	219	232	24	11	9	23	43	1	36	
CITY OF HILO	1153	556	15.0	43	3	282	11	49	105	14	4	4	6	18	1	16	
BALANCE OF COUNTY	670	1317	18.3	313	9	603	10	169	127	10	7	5	17	25		22	
COUNTY OF HONOLULU	14329	14021	17.2	3565	29	3683	638	2070	1796	104	295	466	863	91	58	363	
CITY OF HONOLULU	12943	5610	14.6	1052	3	1273	473	941	925	34	205	226	235	27	48	164	
BALANCE OF COUNTY	1386	9411	19.5	2513	26	2410	165	1129	867	70	90	240	628	64	10	199	
COUNTY OF KALAWAO		1	6.7	1													
COUNTY OF KAUAI	733	778	17.4	140	10	300	12	182	97	3	3	1	3	17		10	
ISLAND OF KAUAI	732	771	17.3	140	7	296	12	182	97	3	3	1	3	17		10	
ISLAND OF NIIHAU	1	7	38.9		3	4											
COUNTY OF MAUI	1444	1594	18.7	320	9	617	24	313	203	11	7	11	8	21	3	47	
ISLAND OF LANAI	16	31	13.8	1		5		22	1					1		1	
ISLAND OF MAUI	1383	1416	18.5	312	5	497	22	279	195	10	7	9	8	20	3	45	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	45	147	22.8	7	4	115	2	12	3	1		2				1	
NONRESIDENT		62		27		2	4	5	2		5	3	5			9	
UNKNOWN RESIDENCE																	

*NUMBER OF BIRTHS PER 1,000 RESIDENT POPULATION

TABLE 3

LIVE BIRTHS BY PLACE OF OCCURRENCE REALLOCATED TO PLACE OF RESIDENCE AND RACE OF MOTHER
STATE OF HAWAII, 1985

GEOGRAPHIC AREA	PLACE OF OCCURRENCE	BIRTH BY PLACE OF RESIDENCE NO.	BIRTH BY PLACE OF RESIDENCE RATE*	RACE OF MOTHER CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL RECORDED	18329	18329	17.4	5802	150	3877	710	2949	2463	115	407	474	661	212	69	440	
STATE OF HAWAII	18329	18267	17.3	5774	150	3875	706	2944	2460	115	401	472	657	212	69	432	
COUNTY OF HAWAII	1823	1873	17.2	518	32	618	28	280	245	15	14	9	7	58	2	47	
CITY OF HILO	1153	556	15.0	87	6	198	9	79	117	9	4	6	1	23	1	16	
BALANCE OF COUNTY	670	1317	18.3	431	26	420	19	201	128	6	10	3	6	35	1	31	
COUNTY OF HONOLULU	14329	14021	17.2	4553	66	2636	648	2165	1904	91	375	452	645	90	66	330	
CITY OF HONOLULU	12943	5610	14.6	1454	13	895	467	959	946	26	243	217	163	26	52	149	
BALANCE OF COUNTY	1386	8411	19.5	3099	53	1741	181	1206	958	65	132	235	482	64	14	181	
COUNTY OF KALAWAO		1	6.7	1													
COUNTY OF KAUAI	733	778	17.4	207	28	196	13	193	103	2	1		1	26		8	
ISLAND OF KAUAI	732	771	17.3	207	23	194	13	193	103	2	1		1	26		8	
ISLAND OF NIIHAU	1	7	38.9		5	2											
COUNTY OF MAUI	1444	1594	18.7	495	24	425	17	306	208	7	11	11	4	38	1	47	
ISLAND OF LANAI	16	31	13.8	3		4		22	1							1	
ISLAND OF MAUI	1383	1416	18.5	468	15	333	16	269	202	7	10	8	4	38	1	45	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	45	147	22.8	24	9	88	1	15	5		1	3				1	
NONRESIDENT		62		28		2	4	5	3		6	2	4			8	
UNKNOWN RESIDENCE																	

*NUMBER OF BIRTHS PER 1,000 RESIDENT POPULATION

TABLE 4

LIVE BIRTHS BY RACE OF MOTHER AND TYPE OF CONGENITAL MALFORMATION
STATE OF HAWAII, 1985

TYPE OF CONGENITAL MALFORMATION	TOTAL	PERCENT	RACE OF MOTHER CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL	18,267	100.0	5,774	150	3,875	706	2,944	2,460	115	401	472	657	212	69	432	
PERCENT	100.0		31.6	.8	21.2	3.9	16.1	13.5	.6	2.2	2.6	3.6	1.2	.4	2.4	
NO MALFORMATION	18,078	99.0	5,724	149	3,829	704	2,913	2,437	113	395	467	651	209	67	420	
ONE OR MORE MALFORMATIONS	189	1.0	50	1	46	2	31	23	2	6	5	6	3	2	12	
ANENCEPHALUS (01)	3				1			2								
SPINA BIFIDA, MENINGOCELE (02)	3		1				2									
HYDROCEPHALUS (03)	2		2													
CIRCULATORY SYSTEM (06, 07)	16	.1	6		4	1	5									
CLEFT PALATE & HARELIP (09)	18	.1	6		4		1	3		1	1	2				
DIGESTIVE SYSTEM (10)	4		1				2	1								
GENITO-URINARY (11)	8		2		2		1	2			1					
CLUBFOOT (12)	10	.1	3		4			1			1				1	
BONE & JOINT (13, 14)	30	.2	7		10		2	5				1		1	4	
MULTIPLE ANOMALIES (16, 17, 18)	10	.1	2		1		1	2		2					2	
DOWNS DISEASE (15)	4		1				1	1							1	
OTHER AND UNSPECIFIED (RESIDUAL)	93	.5	23	1	22	1	19	8	2	3	2	3	3	1	5	

* IF ANY INFANT HAS MORE THAN ONE CONGENITAL MALFORMATION, THE SUM OF THE PERCENTAGES WILL BE GREATER THAN 100

TABLE 5

LIVE BIRTHS BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1985

GEOGRAPHIC AREA	TOTAL	PERCENT	MONTH OF BIRTH												
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	UNK
TOTAL RECORDED	18329	100.0	1459	1359	1523	1467	1527	1471	1603	1565	1672	1588	1448	1647	
STATE OF HAWAII	18329	100.0	1459	1359	1523	1467	1527	1471	1603	1565	1672	1588	1448	1647	
PERCENT			8.0	7.4	8.3	8.0	8.3	8.0	8.7	8.5	9.1	8.7	7.9	9.0	
COUNTY OF HAWAII	1823	9.9	145	136	148	153	149	145	171	134	165	164	153	160	
CITY OF HILO	1153	6.3	80	88	92	92	93	91	114	86	102	114	101	100	
BALANCE OF COUNTY	670	3.7	65	48	56	61	56	54	57	48	63	50	52	60	
COUNTY OF HONOLULU	14329	78.2	1148	1066	1192	1143	1194	1141	1262	1245	1326	1231	1115	1266	
CITY OF HONOLULU	12943	70.6	1035	938	1071	1024	1068	1032	1129	1137	1208	1136	1018	1147	
BALANCE OF COUNTY	1386	7.6	113	128	121	119	126	109	133	108	118	95	97	119	
COUNTY OF KALAWAO															
COUNTY OF KAUAI	733	4.0	54	58	62	54	69	66	52	60	55	72	62	69	
ISLAND OF KAUAI	732	4.0	54	58	62	54	68	66	52	60	55	72	62	69	
ISLAND OF NIIHAU	1						1								
COUNTY OF MAUI	1444	7.9	112	99	121	117	115	119	118	126	126	121	118	152	
ISLAND OF LANAI	16	.1	2	3	1		2	1	3		1		1	2	
ISLAND OF MAUI	1383	7.5	110	96	118	115	113	116	115	113	118	117	111	141	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	45	.2			2	2		2		13	7	4	6	9	
NONRESIDENT															
UNKNOWN RESIDENCE															

TABLE 6

LIVE BIRTHS BY TYPE OF ATTENDANT AT BIRTH BY RACE OF CHILD BY PLACE OF BIRTH
STATE OF HAWAII, 1985

ATTENDANT	TOTAL	RACE OF CHILD														
		CAUCASIAN	HAWAIIAN PART	HAN	CHINESE	FILIPINO	JAPANESE	P-RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAM	OTHER	GUAMAN	ERROR
TOTAL BIRTHS	18329	4478	62	5465	699	2789	2331	140	321	490	902	171	60	470		12
HOSPITAL[a]	18029	4223	61	5445	692	2772	2307	139	319	484	888	170	60	463		14
MED DOC	17193	3750	60	5374	686	2687	2296	131	304	481	746	169	59	447	1	11
OSTEOPATH	767	467		28	4	75	10	9	15	7	140	1	1	16		1
MIDWIFE	47	6	1	29		5			1	1	11					
OTHER	26	5		14	1	1	1		1	1	11					1
NATUROPATH	1				1											
OTHER FACILITY[b]	76	39		15	1	6	9	1	11	1	31	1				
MED DOC	65	36		15		3	7	1	11	1	21	1				
OSTEOPATH					1											
MIDWIFE	9	2			1	3	2	1	1		11	1				
OTHER	1	1							1	1	1					
NATUROPATH						1					1					
OTHER[c]	225	196	1	25	6	11	15	1	11	1	11	11		7		
MED DOC	12	10		1		1	1		1	1	1	1		1	1	
OSTEOPATH					1						1					
MIDWIFE	10	9				1	1		1	1	1					
OTHER	195	170	1	25	5	10	13		11	1	111	1		7		
NATUROPATH	8	7			1						1					
ERROR	1			1							1					1

[a] HOSPITALS AND LARGE DISPENSARIES
[b] SMALL DISPENSARIES, BIRTHING CENTERS
[c] AT HOME

TABLE 7

LIVE BIRTHS BY RACE OF FATHER AND OF MOTHER
STATE OF HAWAII, 1985

RACE OF MOTHER		ALL RACES		RACE OF FATHER													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
ALL RACES	NUMBER	18,267	100.0	5,378	171	3,052	643	2,584	2,197	167	240	470	854	269	44	447	1,751
	PERCENT	100.0		29.4	.9	16.7	3.5	14.1	12.0	.9	1.3	2.6	4.7	1.5	.2	2.4	9.6
CAUCASIAN		5,774	31.6	3,985	40	471	58	260	243	42	20	42	129	38	3	74	369
HAWAIIAN		150	.8	15	28	38	2	7	7	5	1	5	2	4		4	32
PART HAWN		3,875	21.2	332	84	1,553	61	417	271	44	18	111	52	121	1	97	713
CHINESE		706	3.9	103	2	74	341	25	118	1	5	4	7	4	3	7	12
FILIPINO		2,944	16.1	386	9	355	28	1,640	130	18	9	19	38	40		35	237
JAPANESE		2,460	13.5	315	2	337	123	156	1,321	7	34	9	15	27		20	94
PUERTO RCN		115	.6	11		17		9	4	29		1	7	2		2	33
KOREAN		401	2.2	78		35	17	10	76		147	1	13	4		3	17
SAMOAN		472	2.6	21	2	28	1	8	4	2		268	13	2		11	112
NEGRO		657	3.6	35						9			560			4	49
PORTUGUESE		212	1.2	19	2	74	3	30	10	6	2	1	6	24		7	28
VIETNAMESE		69	.4	6		3	2	4	4		1		1		37		11
OTHER		432	2.4	72	2	67	7	18	9	4	3	9	11	3		183	44
UNKNOWN																	
FATHER AND MOTHER OF SAME RACE		10,116	55.4	3,985	28	1,553	341	1,640	1,321	29	147	268	560	24	37	183	

TABLE 8

LIVE BIRTHS BY RACE OF MOTHER AND MONTH OF FIRST PRENATAL VISIT
STATE OF HAWAII, 1985

RACE OF MOTHER		TOTAL NO. OF BIRTHS		MONTH OF FIRST PRENATAL VISIT											
		NUMBER	PERCENT	1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	NONE	NOT STATED	FIRST 3 MONTHS
ALL RACES	NUMBER	18,267	100.0	2,810	6,704	4,124	1,743	1,111	667	407	297	93	130	181	13,638
	PERCENT	100.0		15.4	36.7	22.6	9.5	6.1	3.7	2.2	1.6	.5	.7	1.0	74.7
CAUCASIAN		5,774	31.6	1,003	2,126	1,417	546	284	166	100	48	19	31	34	4,546
HAWAIIAN		150	.8	14	36	37	15	15	9	10	3	2	7	2	87
PART HAWN		3,875	21.2	424	1,284	897	450	307	206	118	90	23	32	44	2,605
CHINESE		706	3.9	127	313	143	31	34	17	12	6	4	2	17	583
FILIPINO		2,944	16.1	375	1,029	701	324	227	117	76	42	8	16	29	2,105
JAPANESE		2,460	13.5	522	1,205	405	134	79	44	13	17	8	12	21	2,132
PUERTO RCN		115	.6	22	38	26	10	10	1	2	3		2	1	86
KOREAN		401	2.2	60	162	88	30	18	21	6	7	2	2	5	310
SAMOAN		472	2.6	38	82	89	66	44	31	35	45	12	14	12	209
NEGRO		657	3.6	122	185	178	75	48	21	10	8	1	5	4	485
PORTUGUESE		212	1.2	42	95	40	19	6	3	3	2	1		2	177
VIETNAMESE		69	.4	12	24	13	6	5	5	1	1			2	49
OTHER		432	2.4	49	125	90	38	34	26	17	25	13	7	8	264
UNKNOWN															

TABLE 9

LIVE BIRTHS BY RACE OF MOTHER AND NUMBER OF CHILDREN BORN TO MOTHER
STATE OF HAWAII, 1985

RACE OF MOTHER		TOTAL NO. OF BIRTHS		TOTAL NUMBER OF CHILDREN BORN TO MOTHER												
		NUMBER	PERCENT	-1-	-2	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	12 OR MORE	UNK
ALL RACES	NUMBER	18,267	100.0	5,821	5,664	3,452	1,740	882	366	173	89	35	14	14	16	1
	PERCENT	100.0		31.9	31.0	18.9	9.5	4.8	2.0	.9	.5	.2	.1	.1	.1	
CAUCASIAN		5,774	31.6	1,784	1,886	1,130	516	278	99	47	15	9	4	2	4	
HAWAIIAN		150	.8	28	37	26	25	21	9	2	1	1	1			
PART HAWN		3,875	21.2	1,187	1,050	734	442	237	108	58	29	11	4	5	9	1
CHINESE		706	3.9	248	256	113	55	22	8	3	2			1		
FILIPINO		2,944	16.1	1,042	912	548	244	113	42	23	12	4	2	1	1	
JAPANESE		2,460	13.5	858	839	445	195	71	36	8	6	2		1	1	
PUERTO RCN		115	.6	30	29	19	18	13	4	1		1			1	
KOREAN		401	2.2	126	151	60	35	15	10	3		1				
SAMOAN		472	2.6	144	99	77	54	36	24	18	11	3	2	4		
NEGRO		657	3.6	171	212	161	69	34	7	3						
PORTUGUESE		212	1.2	64	59	46	25	13	2	1	2					
VIETNAMESE		69	.4	23	15	11	10	5	3	2						
OTHER		432	2.4	118	119	83	52	24	15	8	11	3	1			
UNKNOWN																

TABLE 10

LIVE BIRTHS BY RACE OF MOTHER AND NUMBER OF CHILDREN BORN ALIVE TO MOTHER
STATE OF HAWAII, 1985

RACE OF MOTHER		TOTAL NO. OF BIRTHS		TOTAL NUMBER OF CHILDREN BORN ALIVE												
		NUMBER	PERCENT	-1-	-2	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	12 OR MORE	UNK
ALL RACES	NUMBER	18,267	100.0	7,611	6,113	2,806	1,076	386	141	75	32	6	6	7	3	1
	PERCENT	100.0		41.7	33.5	15.4	5.9	2.1	.8	.4	.2					
CAUCASIAN		5,774	31.6	2,567	2,044	788	249	89	20	11	5				1	
HAWAIIAN		150	.8	35	38	28	27	12	6	4						
PART HAWN		3,875	21.2	1,452	1,168	662	360	131	58	21	10	3	3	4	2	1
CHINESE		706	3.9	320	254	92	28	9	2					1		
FILIPINO		2,944	16.1	1,240	949	486	176	53	18	15	6			1		
JAPANESE		2,460	13.5	1,091	926	347	70	20	4	1		1				
PUERTO RCN		115	.6	40	31	26	10	6		1	1					
KOREAN		401	2.2	186	161	43	6	4	1							
SAMOAN		472	2.6	158	103	78	54	33	17	18	6	1	3	1		
NEGRO		657	3.6	258	242	111	36	8	2							
PORTUGUESE		212	1.2	76	69	43	15	7	1	1						
VIETNAMESE		69	.4	30	11	16	7	3	1	1						
OTHER		432	2.4	158	117	86	38	11	11	6	4	1				
UNKNOWN																

TABLE 11

LIVE BIRTHS BY AGE OF MOTHER AND NUMBER OF CHILDREN BORN
STATE OF HAWAII, 1985

AGE OF MOTHER	TOTAL	PERCENT	TOTAL NUMBER OF CHILDREN BORN TO MOTHER												
			-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	> 11	UNK
ALL AGES	18,267	100.0	5,821	5,664	3,452	1,740	882	366	173	89	35	14	14	16	1
PERCENT	100.0		31.9	31.0	18.9	9.5	4.8	2.0	.9	.5	.2	.1	.1	.1	
UNDER 15	8		8												
15-17	508	2.8	420	73	13	1	1								
18-19	1,277	7.0	819	348	79	24	6	1							
20-24	5,600	30.7	2,132	1,920	962	377	139	40	19	8	2			1	
25-29	5,534	30.3	1,456	1,760	1,173	662	293	108	52	20	4	2	2	2	
30-34	3,850	21.1	773	1,185	877	473	205	133	55	33	15	6	4	7	
35-39	1,307	7.2	190	351	310	172	144	60	34	23	8	5	6	4	
40-44	171	.9	22	24	37	30	13	21	5	5	6	1	1	1	1
45-49	11	.1	1	3	1	1	1	3					1		
OVER 49	1													1	
UNKNOWN															

TABLE 12

LIVE BIRTHS BY AGE OF MOTHER AND NUMBER OF CHILDREN BORN ALIVE
STATE OF HAWAII, 1985

AGE OF MOTHER	TOTAL	PERCENT	TOTAL NUMBER OF CHILDREN BORN ALIVE												
			-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-10-	-11-	> 11	UNK
ALL AGES	18,267	100.0	7,611	6,113	2,806	1,076	386	141	75	32	6	6	7	3	1
PERCENT	100.0		41.7	33.5	15.4	5.9	2.1	.8	.4	.2					
UNDER 15	8		8												
15-17	508	2.8	459	47	2										
18-19	1,277	7.0	963	268	41	5									
20-24	5,600	30.7	2,744	1,964	652	193	29	15	3						
25-29	5,534	30.3	2,027	1,974	963	385	132	34	12	6	1				
30-34	3,850	21.1	1,087	1,409	806	314	131	54	29	14	2	3	1		
35-39	1,307	7.2	294	414	299	149	82	26	29	10	1	3	4	1	
40-44	171	.9	28	33	42	29	10	12	10	2	2		1	1	1
45-49	11	.1	1	4	1	2	2						1		
OVER 49	1													1	
UNKNOWN															

TABLE 13
SINGLE LIVE BIRTHS BY WEIGHT AT BIRTH AND RACE OF CHILD
STATE OF HAWAII, 1985

WEIGHT AT BIRTH IN GRAMS		ALL RACES		RACE OF CHILD													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL		17,946	100.0	4,298	58	5,408	687	2,739	2,284	140	307	478	871	168	60	448	
LOW BIRTH WEIGHT[a/]	NUMBER	1,042	5.8	184	5	315	35	233	138	11	14	10	67	13	3	14	
	PERCENT[b/]			4.3	8.6	5.8	5.1	8.5	6.0	7.9	4.6	2.1	7.7	7.7	5.0	3.1	
UNDER 501		15	.1	3	1	4	1		1			1	4				
501 THRU 1000		66	.4	16		15	1	12	10	1	1		7			1	
1001 THRU 1500		78	.4	16	1	27	3	12	10		1	2	5			1	
1501 THRU 2000		176	1.0	28		62	7	35	17	2	4		15	3		2	
2001 THRU 2500		707	3.9	119	3	207	23	174	100	7	8	7	36	10	3	10	
2501 THRU 3000		3,473	19.4	579	11	1,025	150	752	535	21	46	54	170	37	16	77	
3001 THRU 3500		7,135	39.8	1,574	21	2,205	284	1,128	984	56	128	163	349	59	25	159	
3501 THRU 4000		4,767	26.6	1,405	21	1,419	172	539	520	35	91	159	218	45	11	132	
4001 THRU 4500		1,292	7.2	466		384	42	71	98	12	24	73	58	13	4	47	
4501 THRU 5000		200	1.1	81		51	4	12	7	5	3	14	9	1	1	12	
OVER 5000		32	.2	8		8		2	1		1	5				7	
UNKNOWN		5		1		1		2	1								

MEDIAN WEIGHT, LB.OZ. 7- 5 GRAMS 3307

a/ INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
b/ PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 14

SINGLE LIVE BIRTHS BY WEIGHT AT BIRTH AND RACE OF MOTHER
STATE OF HAWAII, 1985

WEIGHT AT BIRTH IN GRAMS		ALL RACES		RACE OF MOTHER													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL		17,946	100.0	5,660	146	3,822	706	2,900	2,417	107	387	465	639	208	69	420	
LOW BIRTH WEIGHT[a/]	NUMBER	1,042	5.8	242	8	229	36	242	143	9	21	11	62	21	5	13	
	PERCENT[b/]			4.3	5.5	6.0	5.1	8.3	5.9	8.4	5.4	2.4	9.7	10.1	7.2	3.1	
UNDER 501		15	.1	3	1	3	1	1	1			1	4				
501 THRU 1000		66	.4	21		13	1	12	10		1	1	7				
1001 THRU 1500		78	.4	19	1	20	2	13	12		2	2	5			2	
1501 THRU 2000		176	1.0	42		47	7	37	17	2	5		12	4		3	
2001 THRU 2500		707	3.9	157	6	146	25	179	103	7	13	7	34	17	5	8	
2501 THRU 3000		3,473	19.4	764	32	732	159	788	585	24	63	48	132	45	18	83	
3001 THRU 3500		7,135	39.8	2,129	49	1,569	293	1,201	1,046	43	149	157	247	78	29	145	
3501 THRU 4000		4,767	26.6	1,827	51	980	167	563	537	23	117	157	159	54	12	120	
4001 THRU 4500		1,292	7.2	530	5	267	45	90	98	7	33	71	35	10	4	47	
4501 THRU 5000		200	1.1	103		39	6	13	7	1	4	14	4		1	8	
OVER 5000		32	.2	14	1	5		1				7				4	
UNKNOWN		5		1		1		2	1								

MEDIAN WEIGHT, LB.OZ. 7- 5 GRAMS 3307

a/ INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
b/ PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 15

SINGLE MALE LIVE BIRTHS BY WEIGHT AND GESTATION PERIOD
STATE OF HAWAII, 1985

WEIGHT AT BIRTH IN GRAMS		TOTAL	PERCENT	GESTATION PERIOD IN WEEKS						
				UNDER 20	20-27	28-35	36-39	40	OVER 40	UNKNOWN
TOTAL		9,337	100.0	6	38	519	4,830	1,891	2,886	167
LOW BIRTH WEIGHT[a/]	NUMBER	514	5.5	5	29	197	203	33	35	12
	PERCENT[b/]			.1	.3	2.1	2.2	.4	.4	.1
UNDER 501		8	.1	3	5					
501 THRU 1000		29	.3	1	15	8	1	1	1	2
1001 THRU 1500		42	.4	1	4	32	2	1	1	1
1501 THRU 2000		88	.9		1	60	21	1	1	4
2001 THRU 2500		347	3.7		3	97	179	30	32	6
2501 THRU 3000		1,539	16.5		4	125	927	195	284	24
3001 THRU 3500		3,575	38.3	1	4	126	1,844	734	803	63
3501 THRU 4000		2,710	29.0		1	50	1,054	677	892	46
4001 THRU 4500		848	9.1			18	262	219	332	17
4501 THRU 5000		125	1.3			3	30	31	59	2
OVER 5000		23	.2				4	2	16	2
UNKNOWN		3			1		1		1	

MEDIAN WEIGHT, LB.OZ. 7- 7 GRAMS 3360

[a/] INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
[b/] PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 16

SINGLE FEMALE LIVE BIRTHS BY WEIGHT AND GESTATION PERIOD
STATE OF HAWAII, 1985

WEIGHT AT BIRTH IN GRAMS		TOTAL	PERCENT	GESTATION PERIOD IN WEEKS						
				UNDER 20	20-27	28-35	36-39	40	OVER 40	UNKNOWN
TOTAL		8,609	100.0	4	31	403	3,693	1,913	2,401	164
LOW BIRTH WEIGHT[a/]	NUMBER	528	6.1	2	38	174	206	36	52	20
	PERCENT[b/]			1	.4	2.0	2.4	.4	.6	.2
UNDER 501		7	.1	2	5					
501 THRU 1000		37	.4		22	10			1	4
1001 THRU 1500		36	.4		7	25	1		1	2
1501 THRU 2000		88	1.0		3	54	20	2	5	4
2001 THRU 2500		360	4.2		1	85	185	34	45	10
2501 THRU 3000		1,934	22.5	1	4	103	1,085	351	381	29
3001 THRU 3500		3,560	41.4		6	97	1,561	841	995	60
3501 THRU 4000		2,057	23.9	1		24	711	562	734	25
4001 THRU 4500		444	5.2		1	4	143	108	205	5
4501 THRU 5000		75	.9				15	14	45	1
OVER 5000		9	.1			1	2	1	5	
UNKNOWN		2			2					

MEDIAN WEIGHT, LB.OZ. 7- 3 GRAMS 3240

[a/] INFANTS OF 2500 GRAMS OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
[b/] PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT

TABLE 17

LIVE BIRTHS BY RACE, SEX, PLURALITY OF BIRTH, AND LOW BIRTH WEIGHT
STATE OF HAWAII, 1985

RACE OF CHILD	SINGLE AND PLURAL BIRTHS				SINGLE MALE BIRTHS			SINGLE FEMALE BIRTHS			PLURAL MALE BIRTHS			PLURAL FEMALE BIRTHS		
	TOTAL NO. OF BIRTHS	MALE	FEMALE	RATIO a/	TOTAL	LOW BIRTHWEIGHT b/ NO.	LOW BIRTHWEIGHT b/ PERCENT c/	TOTAL	LOW BIRTHWEIGHT b/ NO.	LOW BIRTHWEIGHT b/ PERCENT c/	TOTAL	LOW BIRTHWEIGHT b/ NO.	LOW BIRTHWEIGHT b/ PERCENT c/	TOTAL	LOW BIRTHWEIGHT b/ NO.	LOW BIRTHWEIGHT b/ PERCENT c/
ALL RACES	18,267	9,495	8,772	108.2	9,337	514	5.5	8,609	528	6.1	158	71	44.9	163	97	59.5
CAUCASIAN	4,384	2,308	2,076	111.1	2,263	96	4.2	2,035	88	4.3	45	14	31.1	41	24	58.5
HAWAIIAN	60	32	28	114.2	32	3	9.4	26	2	7.7				2	2	100.0
PART HAWN	5,485	2,847	2,638	107.9	2,816	149	5.3	2,592	166	6.4	31	9	29.0	46	25	54.3
CHINESE	695	340	355	95.7	340	6	1.8	347	29	8.4				8	5	62.5
FILIPINO	2,783	1,412	1,371	102.9	1,394	128	9.2	1,345	105	7.8	18	10	55.6	26	16	61.5
JAPANESE	2,328	1,189	1,139	104.3	1,159	67	5.8	1,125	71	6.3	30	18	60.0	14	13	92.9
PUERTO RCN	142	82	60	136.6	81	7	8.6	59	4	6.8	1	1	100.0	1	1	100.0
KOREAN	316	169	147	114.9	166	7	4.2	141	7	5.0	3	2	66.7	6	2	33.3
SAMOAN	487	259	228	113.5	255	3	1.2	223	7	3.1	4			5		
NEGRO	897	496	401	123.6	480	31	6.5	391	36	9.2	16	12	75.0	10	7	70.0
PORTUGUESE	172	83	89	93.2	81	6	7.4	87	7	8.0	2			2	2	100.0
VIETNAMESE	60	38	22	172.7	38	3	7.9	22								
OTHER	458	240	218	110.0	232	8	3.4	216	6	2.8	8	5	62.5	2		
UNKNOWN																

a/ NUMBER OF MALES PER 100 FEMALES
b/ INFANTS OF 2500 GRAMS (5 LB 8 OZ) OR LESS ARE CONSIDERED LOW BIRTH WEIGHT
c/ PERCENT OF BIRTHS OF KNOWN WEIGHT ONLY

TABLE 18

LIVE BIRTHS BY RACE AND AGE OF MOTHER
STATE OF HAWAII, 1985

RACE OF MOTHER		ALL AGES		AGE OF MOTHER IN YEARS										
		NUMBER	PERCENT	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	OVER 49	UNKNOWN
ALL RACES	NUMBER	18,267	100.0	8	508	1,277	5,600	5,534	3,850	1,307	171	11	1	
	PERCENT	100.0			2.8	7.0	30.7	30.3	21.1	7.2	.9	.1		
CAUCASIAN		5,774	31.6	3	79	279	1,880	1,827	1,211	445	46	3	1	
HAWAIIAN		150	.8		4	9	54	43	26	12	3			
PART HAWN		3,875	21.2	1	237	521	1,469	973	513	136	25			
CHINESE		706	3.9		6	5	85	244	262	93	9	2		
FILIPINO		2,944	16.1	3	103	238	855	914	541	201	44	5		
JAPANESE		2,460	13.5		24	68	355	798	893	302	19	1		
PUERTO RCN		115	.6		4	12	44	38	11	5	1			
KOREAN		401	2.2		2	9	71	153	125	38	3			
SAMOAN		472	2.6		20	41	172	131	75	22	7			
NEGRO		657	3.6	1	6	42	343	190	71	4				
PORTUGUESE		212	1.2		7	18	72	63	41	11				
VIETNAMESE		69	.4		4	10	13	15	16	7	4			
OTHER		432	2.4		12	26	147	145	61	31	10			
UNKNOWN														

TABLE 19
LIVE BIRTHS BY AGE OF FATHER AND OF MOTHER
STATE OF HAWAII, 1985

AGE OF FATHER		ALL AGES		AGE OF MOTHER IN YEARS										
		NUMBER	PERCENT	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	OVER 49	UNKNOWN
ALL AGES	NUMBER	18,267	100.0	8	508	1,277	5,600	5,534	3,850	1,307	171	11	1	
	PERCENT	100.0			2.8	7.0	30.7	30.3	21.1	7.2	.9	.1		
< 15		1			1									
15-17		110	.6	2	61	39	7	1						
18-19		404	2.2	1	95	205	95	6	2					
20-24		3,834	21.0		135	606	2,529	470	80	13	1			
25-29		4,757	26.0		15	92	1,685	2,452	425	75	8	1		
30-34		4,041	22.1		3	17	432	1,595	1,755	215	20	4		
35-39		2,222	12.2		3	6	118	464	1,015	582	33	1		
40-44		721	3.9			4	46	121	263	229	57	1		
45-49		231	1.3				16	48	76	67	21	3		
50-54		92	.5	1		1	2	17	30	34	5	1	1	
55-59		41	.2				5	10	7	14	5			
60-64		22	.1					2	9	7	4			
OVER 64		34	.2				4	7	10	10	3			
UNKNOWN		1,757	9.6	4	195	307	661	341	174	61	14			

MEDIAN AGE OF KNOWN FATHERS = 29
MEDIAN AGE OF ALL MOTHERS = 26

TABLE 20
ONE MINUTE APGAR SCORE BY FIVE MINUTE APGAR SCORE
STATE OF HAWAII, 1985

ONE MINUTE APGAR SCORE	TOTAL	FIVE MINUTE APGAR SCORE																			
		0	1	2	0-2	3	4	3-4	5	6	5-6	7	8	7-8	9	10	9-10	UNKN
TOTAL	18267	91	377	193	661	167	381	548	1017	1491	2508	4931	6202	11133	14559	13941	28500	1577
0	172	21	32	1	54	11	2	13	17	17	34	21	11	32	11	21	32	39	1
1	140	31	29	6	38	9	7	16	16	16	32	17	21	38	15	11	26	16	1
2	114	21	31	5	10	4	4	8	9	14	23	18	24	42	31	1	32	11	1
0-2	266	71	35	11	53	14	11	25	26	31	57	36	45	81	48	22	50	66	1
3	164	1	21	1	23	21	41	62	121	201	321	351	491	841	421	1	421	1	1
4	260	1	7	31	39	1	11	12	61	171	231	451	781	1231	1091	11	1101	1	1
3-4	426	1	21	31	51	21	51	71	181	371	551	801	1271	2071	1511	11	1521	1	1
5	379	11	1	1	11	1	11	11	21	211	231	651	1081	1731	1761	51	1811	1	1
6	719	1	1	1	1	1	11	11	1	71	71	631	2631	3261	3681	171	3851	1	1
5-6	1098	11	1	1	11	1	21	21	21	281	301	1281	3711	4991	5441	221	5661	1	1
7	2143	1	1	1	1	1	1	1	11	31	41	301	5941	6251	14851	491	15141	1	1
8	10094	11	1	11	21	1	1	1	11	21	31	191	4741	4931	92641	3321	95961	1	1
7-8	12237	11	1	11	21	1	1	1	21	51	71	491	10691	11181	107291	3811	111101	1	1
9	4000	1	1	1	1	1	1	1	1	1	1	1	81	81	30841	9081	39921	1	1
10	811	1	1	1	1	1	1	1	1	1	1	1	1	1	21	791	811	1	1
9-10	4081	1	1	1	1	1	1	1	1	1	1	1	81	81	30861	9871	40731	1	1
UNKN	1591	1	1	1	1	1	1	1	1	1	1	1	1	1	11	11	21	1571	

TABLE 21

FIVE MINUTE APGAR SCORE BY RESIDENCE OF MOTHER
STATE OF HAWAII, 1985

GEOGRAPHIC AREA	TOTAL	FIVE MINUTE APGAR SCORE																			
		0	1	2	0-2	3	4	3-4	5	6	5-6	7	8	7-8	9	10
STATE OF HAWAII	18267	91	371	151	611	161	181	341	481	1011	1491	2931	1620	1913	14559	13941
COUNTY OF HAWAII	1873	1	41	11	51	11	31	41	31	101	131	251	134	159	1155	4901
CITY OF HILO	572	1	11	11	21	1	11	11	11	31	41	71	321	391	3501	1711
BALANCE OF CO	1301	1	31	1	31	11	21	31	21	71	91	181	1021	1201	8051	3191
COUNTY OF HONOLULU	14021	71	391	121	481	131	121	251	371	811	1181	2231	1243	1466	11602	7031
CITY OF HONOLULU	5610	51	91	51	191	21	51	71	141	261	401	731	431	504	4777	2441
BALANCE OF CO	8411	21	211	71	301	111	71	181	231	551	781	1501	812	962	6825	4591
COUNTY OF KALAWAO	1	1														
COUNTY OF KAUAI	778	11	31	11	51	21	11	31	51	41	91	221	108	130	5831	211
ISLAND OF KAUAI	770	11	31	11	51	21	11	31	51	41	91	211	108	129	5781	201
ISLAND OF NIIHAU	7	1			1							1		1	41	11
COUNTY OF MAUI	1594	11	1	11	21	1	21	21	31	61	91	231	135	158	12181	1801
ISLAND OF LANAI	31	1			1							1	5	6	251	1
ISLAND OF MAUI	1413	11	1	11	21	1	21	21	21	61	81	221	116	138	10781	1601
ISLAND OF MOLOKAI	147	1		1	1	1	1	1	11	1	11	1	14	14	1121	201

TABLE 22

ILLEGITIMATE LIVE BIRTHS BY PLACE OF OCCURRENCE REALLOCATED TO PLACE OF RESIDENCE AND RACE OF MOTHER
STATE OF HAWAII, 1985

GEOGRAPHIC AREA	PLACE OF OCCURRENCE	BIRTH BY PLACE OF RESIDENCE		RACE OF MOTHER													
		NO.	RATE*	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTRICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETMESE	OTHER	UNKNOWN
TOTAL RECORDED	3661	3661	199.7	706	64	1560	38	589	228	46	36	141	78	66	19	90	
STATE OF HAWAII	3661	3650	199.8	698	64	1560	38	589	228	46	36	140	78	66	19	88	
COUNTY OF HAWAII	561	558	297.9	130	16	242	2	76	33	8	7	1	3	22		18	
CITY OF HILO	353	189	339.9	27	3	91		26	15	6	1			10		6	
BALANCE OF COUNTY	188	369	280.2	103	13	151	2	50	14	2	6	1	3	12		12	
COUNTY OF HONOLULU	2634	2548	181.7	435	32	1085	33	421	161	36	27	134	72	30	19	63	
CITY OF HONOLULU	2317	971	173.1	179	4	345	19	165	92	6	19	63	21	10	15	33	
BALANCE OF COUNTY	317	1577	187.5	256	28	740	14	256	69	30	8	71	51	20	4	30	
COUNTY OF KALAWAO																	
COUNTY OF KAUAI	159	171	219.8	32	7	70	1	44	10					5		2	
ISLAND OF KAUAI	159	170	220.5	32	7	69	1	44	10					5		2	
ISLAND OF NIIHAU		1	142.9			1											
COUNTY OF MAUI	327	373	234.0	101	9	163	2	46	24	2	2	5	3	9		5	
ISLAND OF LANAI	4	5	161.3			1		4									
ISLAND OF MAUI	307	316	223.2	99	5	119	2	43	23	2	2	4	3	9		5	
ISLAND OF MOLOKAI (EXCL. KALAWAO)	16	52	353.7	2	4	43		1	1			1					
NONRESIDENT		11	177.4	8								1				2	
UNKNOWN RESIDENCE																	

* NUMBER OF BIRTHS PER 1000 RESIDENT LIVE BIRTHS.

TABLE 23

ILLEGITIMATE LIVE BIRTHS BY WEIGHT AT BIRTH AND RACE OF CHILD
STATE OF HAWAII, 1985

WEIGHT AT BIRTH IN GRAMS		ALL RACES		RACE OF CHILD													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER	UNKNOWN
TOTAL		3,650	100.0	477	44	1,898	30	517	203	55	28	143	112	49	15	79	
LOW BIRTH WEIGHT[a]	NUMBER	320	8.8	39	6	172		58	19	6	3	3	8	4	1	2	
	PERCENT[b]			8.0	13.6	9.1		11.2	9.4	10.9	10.7	2.1	7.1	8.2	6.7	2.5	
UNDER 501		5	.1	1	1	2			1								
501 THRU 1000		17	.5			10		4	1	1			1				
1001 THRU 1500		32	.9	8	1	16		5	2								
1501 THRU 2000		70	1.9	7		41		8	4	2	2		5	1			
2001 THRU 2500		196	5.4	22	4	103		41	11	3	1	3	2	3	1	2	
2501 THRU 3000		868	23.8	108	10	426	10	161	60	8	7	19	22	11	5	21	
3001 THRU 3500		1,420	38.9	178	15	746	13	197	72	25	10	54	49	23	5	33	
3501 THRU 4000		838	23.0	113	13	440	6	90	45	13	6	55	24	9	3	21	
4001 THRU 4500		173	4.7	29		100	1	9	5	2	2	10	9	2	1	2	
4501 THRU 5000		29	.8	11		12		2	2			2					
OVER 5000		1				1											
UNKNOWN		1				1											

MEDIAN WEIGHT, LB.OZ. 7- 1 GRAMS 3191

a/ INFANTS OF LESS THAN 2500 GRAMS ARE CONSIDERED LOW BIRTH WEIGHT.
b/ PERCENT OF SINGLE LIVE BIRTHS OF KNOWN WEIGHT.

TABLE 24

ILLEGITIMATE LIVE BIRTHS BY RACE AND AGE OF MOTHER
STATE OF HAWAII, 1985

RACE OF MOTHER		ALL AGES		AGE OF MOTHER IN YEARS										
		NUMBER	RATIO*	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	OVER 49	UNKNOWN
ALL RACES	NUMBER	3,650	199.8	8	432	695	1,391	647	326	122	28			
	RATIO*			1000.0	850.4	544.2	248.4	116.9	84.7	94.1	163.7			
CAUCASIAN		698	120.9	3	53	73	241	169	112	38	9			
HAWAIIAN		64	426.7		4	4	28	18	5	4	1			
PART HAWN		1,560	402.6	1	218	373	616	230	99	28	6			
CHINESE		38	53.8		5	3	10	8	9	2	1			
FILIPINO		589	200.1	3	84	133	231	90	35	5	4			
JAPANESE		228	92.7		21	32	81	37	30	24	3			
PUERTO RCN		46	400.0		4	8	19	13		2				
KOREAN		36	89.8		2	3	7	13	7	4				
SAMOAN		140	296.6		16	29	58	20	11	4	2			
NEGRO		78	118.7	1	5	6	30	17	10	1				
PORTUGUESE		66	311.3		7	12	27	11	5					
VIETNAMESE		19	275.4		4	0	5	2	2	1	1			
OTHER		88	203.7		9	13	32	19	8	6	1			
UNKNOWN														

* NUMBER OF ILLEGITIMATE BIRTHS PER 1000 LIVE BIRTHS IN SPECIFIED GROUP.

TABLE 25

HAWAII RESIDENT BIRTHS OCCURRING OUTSIDE STATE BY AGE OF MOTHER, RACE, AND SEX OF CHILD*
1985

AGE OF MOTHER	TOTAL		RACE AND SEX OF CHILD																	
			CAUCA-SIAN		JAPA-NESE		CHI-NESE		FILI-PINO		HAWAIIAN PT HAW'N		KOREAN		BLACK		OTHER PAC. IS.		OTHER & UNK	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL	15	20	7	9	1		1		2	3	2	2	1		1	5				1
UNDER 15																				
15 - 19	1	1	1													1				
20 - 24	5	6	1	2			1		1	1	1	1			1	2				
25 - 29	4	8	1	4	1					1	1	1	1			1				1
30 - 34	5	2	4	2					1											
35 - 39		3		1						1						1				
40 & OVER																				

*INCLUDES BIRTHS OCCURRING IN THE UNITED STATES, GUAM, AND CANADA.

FIGURE 2
DEATHS OCCURRING IN HAWAII 1900-1985

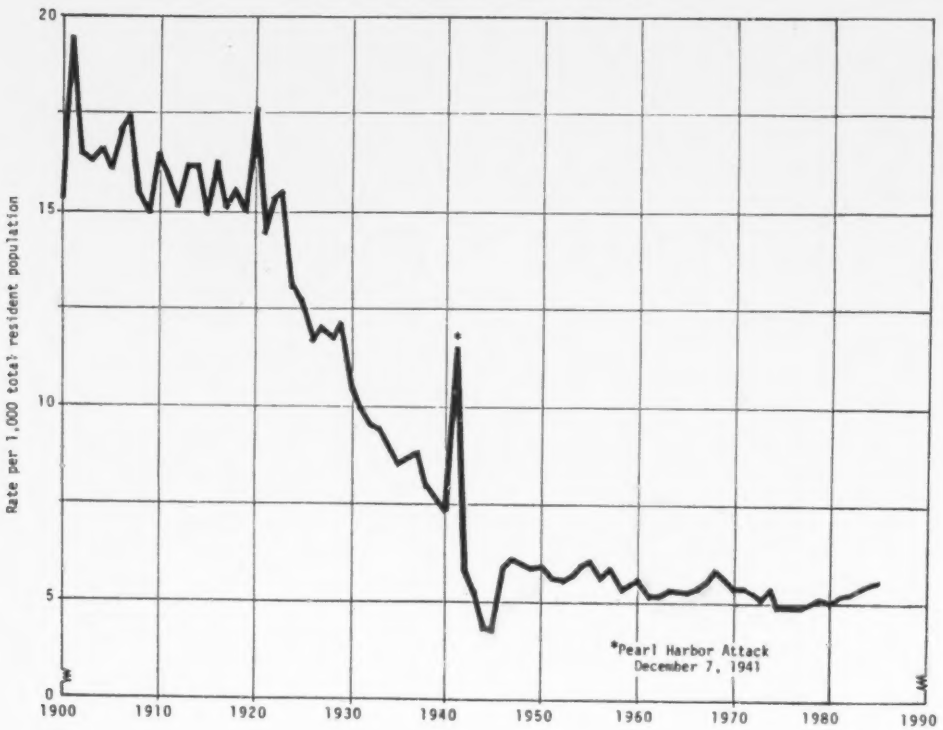


TABLE 26

TOTAL DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE BY RACE
STATE OF HAWAII, 1985 a/

GEOGRAPHIC AREA	TOTAL BY PLACE OF OCCURR	TOTAL BY PLACE OF RESIDENCE		ALL RACES		RACE												
		NUMBER	RATE b/	MALE	FE-MALE	CAUCA-SIAN	HAWN	PT. HAWN	CHI-NESE	FILI-PINO	JAPA-NESE	PUERTO RICAN	KO-REAN	SA-MOAN	NEGRO	PORTU GUESE	VIETNA-MESE	OTHER RACES	UN-KNOWN
TOTAL RECORDED	6116	6116	5.8	3676	2440	1716	245	736	381	867	1637	68	91	60	60	221	5	80	9
STATE OF HAWAII	6116	5751	5.5	3416	2335	1460	243	734	376	797	1617	68	88	55	49	221	5	31	7
CTY OF HAWAII	671	715	6.6	450	265	161	37	100	14	117	224	13	3		2	43		1	
CITY OF HILO	431	256	6.9	156	100	38	15	36	7	30	100	6	1			23		1	
BALANCE OF CTY	240	459	6.4	294	165	123	22	65	7	87	124	7	2		2	20			
CTY OF HONOLULU	4708	4294	5.3	2513	1781	1142	158	542	349	543	1170	44	83	55	47	120	5	29	7
CITY-HONOLULU	3708	2682	6.5	1390	1092	671	78	237	284	222	786	20	69	23	9	59	4	16	4
BALANCE OF CTY	1000	1812	4.2	1123	689	471	80	305	65	321	384	24	14	32	38	61	1	13	3
CTY OF KALAWAO																			
CTY OF KAUAI	263	256	5.7	158	98	44	15	22	3	62	82	5	1			22			
ISL OF KAUAI	263	255	5.7	157	98	44	14	22	3	62	82	5	1			22			
ISL OF NIIHAU		1	5.6	1			1												
CTY OF MAUI	474	486	5.7	295	191	113	33	70	10	75	141	6	1			36		1	
ISL OF LANAI	12	11	8.0	12	6	2				8	8								
ISL OF MAUI	437	416	5.4	256	160	108	20	53	9	56	127	6	1			35		1	
ISL OF MOLOKAI (EXCL KALAWAO)	25	52	8.1	27	25	3	13	17	1	11	6					1			
NONRESIDENT		363		258	105	255	2	2	5	14	20		3	5	11			49	1
UNKNOWN		2		2		1													1

a/EXCLUDES DEATHS OF HAWAII RESIDENTS OCCURRING AND RECORDED IN OTHER REGISTRATION AREAS
b/RATE OF DEATH PER 1,000 RESIDENT POPULATION

TABLE 27

RESIDENT DEATHS BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1985

PLACE OF OCCURRENCE		TOTAL	MONTH OF OCCURRENCE											
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	UNK
STATE OF HAWAII	NUMBER	5751	515	501	552	483	478	414	470	431	452	438	472	545	
	PERCENT	100.0	9.0	8.7	9.6	8.4	8.3	7.2	8.2	7.5	7.9	7.6	8.2	9.5	
CTY OF HAWAII		665	67	40	64	66	41	59	45	36	60	54	54	59	
CITY OF HILO		427	42	30	38	48	26	40	29	23	46	36	38	31	
BALANCE OF CTY		238	25	10	26	18	15	19	16	13	14	18	16	28	
CTY OF HONOLULU		4444	387	404	421	349	396	318	375	345	345	328	362	424	
CITY-HONOLULU		3470	300	298	329	274	306	254	293	258	271	263	282	342	
BALANCE OF CTY		974	87	106	92	75	90	64	82	87	74	65	80	82	
CTY OF KALAWAO															
CTY OF KAUAI		239	17	21	26	26	23	13	17	11	16	25	20	24	
ISL OF KAUAI		239	17	21	26	26	23	13	17	11	16	25	20	24	
ISL OF NIIHAU															
CTY OF MAUI		423	44	36	41	42	28	24	33	39	31	31	36	38	
ISL OF LANAI		12	2	1	1	2	2	1	1				1	1	
ISL OF MAUI		386	39	33	37	38	23	23	31	37	30	25	34	36	
ISL OF MOLOKAI		25	3	2	3	7	3		1	2	1	6	1	1	
NON-RESIDENT															
UNKNOWN															

TABLE 28

RESIDENT DEATHS BY PLACE OF OCCURRENCE, AGE, AND SEX
STATE OF HAWAII, 1985

PLACE OF OCCURRENCE	ALL AGES				AGE AND SEX																			
	TOTAL	MALE	FEMALE	UNK	UNDER 1		1 - 4		5 - 14		15 - 17		18 - 24		25 - 44		45 - 64		65 - 74		75 & OVER		UNK
					M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
STATE OF HAWAII	5751	3416	2335		85	74	14	11	14	17	15	8	78	19	258	117	789	466	844	467	1319	1156	
CTY OF HAWAII	645	403	242		5	4			2	1	1	2	8		27	8	72	54	100	43	188	130	
CITY OF HILO	427	257	170		3	4			2			1	3		14	6	43	37	64	30	128	92	
BALANCE OF CTY	218	146	72		2					1	1	1	5		13	2	29	17	36	13	60	38	
CTY OF HONOLULU	4444	2607	1837		72	66	14	5	12	16	13	6	68	18	207	96	627	370	639	370	955	886	
CITY-HONOLULU	3470	2028	1442		63	55	12	7	9	10	6	3	40	10	142	71	488	284	511	293	756	709	
BALANCE OF CTY	974	579	395		9	11	2	2	3	6	7	3	28	8	64	25	139	86	128	77	199	177	
CTY OF KALAWAO																							
CTY OF KAUAI	239	149	90		2	2		1			1		1	1	5	7	35	14	36	18	71	47	
ISL OF KAUAI	239	149	90		2	2		1			1		1	1	3	7	35	14	36	18	71	47	
ISL OF NIIHAU																							
CTY OF MAUI	423	257	166		6	2		1					1		21	6	55	28	69	36	105	93	
ISL OF LANAI	12	8	4																2	2	6	2	
ISL OF MAUI	386	235	151		5	1		1					1		20	6	50	27	64	29	95	87	
ISL OF MOLOKAI	25	14	11		1	1									1		5	1	3	5	4	4	
NON-RESIDENT																							
UNKNOWN																							

TABLE 29

RESIDENT DEATHS BY AGE AND RACE
STATE OF HAWAII, 1985

AGE IN YEARS	ALL RACES				RACE													
	TOTAL	MALE	FEMALE	UNK	CAUCASIAN	HAWN	PT. HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNK
ALL AGES	5751	3416	2335		1460	243	734	376	797	1617	68	88	55	49	221	5	31	7
UNDER 1	159	85	74		32	2	52	5	24	15		6	2	18			3	
1 - 4	25	14	11		6		5	3	6	2		1		1			1	
5 - 14	31	14	17		4		13	1	2	3		3	4	1				
15 - 17	23	15	8		5	1	6	2	4	3			2					
18 - 19	28	18	10		2		15		5	2			1	2			1	
20 - 24	69	60	9		24	2	16	4	8	7			4	2			1	1
25 - 34	168	125	43		63	6	31	6	13	24	2	3	3	9	4		4	
35 - 44	207	133	74		56	7	49	4	36	35	2	3	1	3	6	1	3	1
45 - 54	322	203	119		84	19	80	9	35	61	10	6	6	2	6		4	
55 - 64	933	586	347		224	49	157	49	100	265	16	13	15	1	38	1	5	
65 - 74	1311	844	467		357	74	158	87	146	367	19	29	4	4	56	1	5	4
75 & OVER	2475	1319	1156		603	83	152	206	418	833	19	24	13	6	111	2	4	1
UNKNOWN																		

TABLE 30
TOTAL RECORDED DEATHS, BY AGE, RACE, AND SEX
STATE OF HAWAII, 1985

CAUSE AGE	TOTAL	MAL	FEM	CAUCASIAN		HAW-AIIAN		PART HAWN		CHIN-ESE		FILI-PINO		JAPA-NESE		PUERTO RCN		KO-REAN		SA-MOAN		NE-GRO		PORTU GUESE		VIET MESE		OTHER		UNK	
				M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ALL < 1	167	90	77	15	19	1	1	27	25	1	4	14	10	9	6			5	1	2		10	9					6	2		
1	12	8	4	1	1			1		1		2	1		1								1					3			
2	5	3	2	1					1	1	1	1																			
3	5	3	2	1	1			1	1			1																			
4	5	2	3	1					1				1	1					1												
5-9	15	7	8	1	2			3	3		1	1		1							1		1					1			
10-14	20	11	9		1			2	5	1		2		1	1			1	2	3								1			
15-19	65	42	23	8	3	1		12	9	1	1	5	4	4	3					3		2						6	3		
20-24	76	64	12	22	6	2		16		4		6	2	7	1					3	1	2						2	1		1
25-29	89	65	24	28	10	3	1	8	5	3	1	5		5	4				1	3	1	7		3				1			
30-34	106	80	26	35	6	1	1	13	5		2	5	6	14	2	2		2				5			1			3	3		
35-39	122	82	40	33	10	1	2	12	11	1		9	4	14	6	1			1	2		3		3				2	6	1	
40-44	117	74	43	22	12	3	1	17	9	1	2	15	8	9	9		1	2						3		1			1	1	
45-49	148	94	54	30	15	7	2	25	11	1	3	9	7	11	10	3	1	1	1	1		2	1	3					3	1	
50-54	209	137	72	39	17	6	4	26	19	5		10	10	30	14	4	2	4	1	5			1	3				5	4		
55-59	421	274	147	83	34	15	7	37	37	8	8	26	16	78	34	5	1	4	3	2	2	1	1	12	2		1	3	1		
60-64	570	355	215	99	49	12	15	47	37	23	11	37	22	92	64	9	1	4	3	5	7	1	1	21	3			5	2		
65-69	666	417	249	142	76	20	17	44	35	24	16	32	15	115	70	7	3	10	3	1	2		1	17	7		1	3	3	2	
70-74	753	506	247	152	80	19	19	50	29	34	15	86	15	117	68	4	5	10	6	3		2	1	26	6			2	2	1	1
75-79	785	502	283	121	91	14	23	40	22	27	21	144	24	114	77	4	2	4	3	6	1	2	2	25	17	1					
80-84	749	440	309	88	88	12	13	20	28	38	34	108	26	146	94	3	4	6	2		1	1		16	18			2	1		
85-89	543	256	287	58	84	7	11	14	14	26	34	61	14	72	106	2	2	1	7	1	2	1	1	11	11		1	1		1	
90-94	300	101	199	26	60		3	2	11	6	15	27	5	36	94		2		1	1		1		2	8						
> 94	167	63	104	12	33		1	1			6	8	3	40	57				1		1			1	2			1			
UNK	1		1																										1		
TOTAL	6116	3676	2440	1018	698	124	121	418	318	206	175	614	193	916	721	44	24	54	37	41	19	40	20	146	75	7	3	46	34	7	2

NOTE: UNKNOWN SEX FALLS IN MALE CATEGORY

TABLE 31
TOTAL RESIDENT DEATHS RECORDED IN HAWAII BY AGE GROUPS FOR SELECTED YEARS
STATE OF HAWAII: 1985, 1975, AND 1965

AGE IN YEARS	1985		1975[a]		1965[a]	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
ALL AGES	5,751	100.0	4,272	100.0	3,592	100.0
UNDER 1	159	2.8	201	4.7	344	9.6
1 - 4	25	0.4	24	0.6	47	1.3
5 - 9	14	0.2	23	0.5	33	0.9
10 - 14	17	0.3	24	0.6	27	0.8
15 - 19	51	0.9	43	1.0	30	0.8
20 - 24	69	1.2	82	1.9	34	0.9
25 - 34	168	2.9	149	3.5	102	2.8
35 - 44	207	3.6	173	4.0	200	5.6
45 - 54	322	5.6	462	10.8	408	11.4
55 - 64	933	16.2	683	16.0	622	17.3
65 - 74	1,311	22.8	965	22.6	704	19.6
75 - 84	1,478	25.7	862	20.2	712	19.8
85 & OVER	997	17.4	581	13.6	329	9.2
UNKNOWN	--		--		--	

MEDIAN AGE AT DEATH 1985: 71.9 YEARS; 1975: 67.8 YEARS; 1965: 64.2 YEARS
[a]/SOURCE: DEPARTMENT OF HEALTH ANNUAL STATISTICAL REPORT, 1975

TABLE 32
RESIDENT DEATHS BY AGE, SEX, AND MARITAL STATUS
STATE OF HAWAII, 1985

AGE IN YEARS	NUMBER BY MARITAL STATUS																	
	MALE						FEMALE						UNKNOWN					
	TOTAL	SIN	MAR	WID	DIV	UNK	TOTAL	SIN	MAR	WID	DIV	UNK	TOTAL	SIN	MAR	WID	DIV	UNK
ALL AGES	3416	646	1968	489	302	11	2335	257	761	1146	168	3						
UNDER 15	113	113					102	102										
15 - 17	15	15					8	8										
18 - 19	18	18					10	10										
20 - 24	60	52	7		1		9	5	3			1						
25 - 34	125	66	46		13		43	15	18	3	7							
35 - 44	133	37	64	1	30	1	74	8	47		19							
45 - 54	203	36	143	4	20		119	12	79	13	15							
55 - 64	586	93	396	29	71		347	26	220	61	40							
65 - 74	844	86	584	97	86	1	467	23	223	190	30	1						
75 - 84	907	97	553	186	66	5	571	26	131	373	40	1						
85 & OVER	412	36	175	182	15	4	585	22	40	506	17							
UNKNOWN																		

TABLE 33
LEADING CAUSES OF DEATH FOR 1985 AND COMPARATIVE DATA FOR SELECTED YEARS
STATE OF HAWAII, 1985, 1975, 1965

	Rank	1985			1975			1965		
		No.[a]	Rate[b]	Percent	No.[c]	Rate[b]	Percent	No.[c]	Rate[b]	Percent
All Causes	..	5,751	545.7	100.0	4,272	493.9	100.0	3,592	510.4	100.0
Diseases of the Heart (390-398, 402, 404, 410-429)	1	1,860	176.5	32.3	1,395	161.3	32.6	1,237	175.8	34.4
Malignant Neoplasms (140-208)	2	1,421	134.8	24.7	929	107.4	21.7	743	105.6	20.7
Cerebrovascular Diseases (430-438)	3	430	40.8	7.5	387	44.7	9.1	310	44.0	8.6
Influenza and Pneumonia (480-487)	4	254	24.1	4.4	160	18.5	3.7	120	17.1	3.3
All Accidents (E800-E949)	5	235	22.8	4.1	247	28.6	5.8	251	35.7	7.0
Diabetes Mellitus (250)	6	138	13.1	2.4	134	15.5	3.1	110	15.6	3.1
Suicide (E950-E959)	7	95	9.0	1.7	73	8.4	1.7	52	7.4	1.5
Liver Disease and Cirrhosis (571)	8	78	7.4	1.4	67	7.8	1.6	48	6.8	1.3
Perinatal Conditions (760-779)	9	77	7.3	1.3	106	12.3	2.5	227	32.3	6.3
Bronchitis, Emphysema and Asthma (490-493)	10	61	5.8	1.0	46	5.3	1.1	79	11.2	2.2
Other Circulatory Diseases (441-459)	11	59	5.6	1.0	47	5.4	1.1	35	5.0	1.0
Congenital Anomalies (740-759)	12	55	5.2	1.0	51	5.9	1.2	77	10.9	2.2
Homicide (960-978)	13	36	3.4	0.6	63	7.3	1.5	24	3.4	0.7
All Other Causes		952	--	16.6	567	105.5	13.3	279	39.6	7.8

[a] Resident deaths only (including resident military personnel)
[b] Rate of death per 100,000 total resident population
[c] Source: Annual Statistical Report of the Health Department

TABLE 34

RESIDENT DEATHS IN HAWAII, LEADING CAUSES OF DEATH FOR AGE GROUPS

STATE OF HAWAII 1985

ALL AGE GROUPS	Total	Rate per 10,000 Resident Population	Male		Female	
			Number	Percent	Number	Percent
Total	5,751	54.6	3,416	100.0	2,335	100.0
1. Diseases of the Heart	1,860	17.7	1,125	32.9	735	31.5
2. Malignant Neoplasm	1,421	13.5	869	25.4	552	23.6
3. Cerebrovascular Disease	430	4.1	214	6.3	216	9.3
4. Influenza and Pneumonia	254	2.4	144	4.2	110	4.7
5. Diabetes Mellitus	138	1.3	74	2.2	64	2.7
6. Motor Vehicle Accidents	127	1.2	89	2.6	38	1.6
7. Accidents (less Motor V.)	108	1.0	79	2.3	29	1.3
8. Suicide	95	0.9	66	1.9	29	1.3
9. Cirrhosis of the Liver	78	0.7	56	1.7	22	0.9
10. Perinatal Conditions	77	0.7	40	1.2	37	1.6
All Other Causes	1,163	11.0	660	19.3	503	21.5

	Total	Male	Female
UNDER 1 YEAR OLD - TOTAL	159	85	74
1. Perinatal Conditions	77	40	37
2. Congenital Anomalies	42	22	20
3. Influenza and Pneumonia	3	1	2
4. Diseases of the Heart	2	1	1
4. Cirrhosis of the Liver	2	0	2
All Other Causes	33	21	12
1 TO 4 YEAR OLD - TOTAL	25	14	11
1. Accidents (less Motor V.)	6	3	3
2. Malignant Neoplasm	3	2	1
3. Motor Vehicle Accidents	2	1	1
3. Congenital Anomalies	2	2	0
3. Influenza & Pneumonia	2	1	1
All Other Causes	10	5	5
5-14 YEAR OLD - TOTAL	31	14	17
1. Malignant Neoplasm	10	5	5
2. Motor Vehicle Accident	6	3	3
3. Accidents (less Motor V.)	4	3	1
4. Diseases of the Heart	2	2	0
4. Homicide	2	1	1
All Other Causes	7	0	7

	Total	Male	Female
15-24 YEAR OLD - TOTAL	120	93	27
1. Motor Vehicle Accidents	50	39	11
2. Suicide	20	18	2
3. Accidents (less Motor V.)	13	13	0
4. Homicide & Legal Interv.	7	3	4
5. Malignant Neoplasm	6	5	1
6. Diseases of the Heart	5	4	1
7. Congenital Anomalies	2	1	1
All Other Causes	17	10	7
25-34 YEAR OLDS - TOTAL	168	125	43
1. Motor Vehicle Accidents	31	20	11
2. Suicide	27	20	7
3. Malignant Neoplasm	22	18	4
4. Accidents (less Motor V.)	14	14	0
5. Homicide & Legal Interv.	11	8	3
6. Diseases of the Heart	9	7	2
7. Cerebrovascular Disease	5	4	1
8. Influenza and Pneumonia	4	2	2
All Other Causes	45	32	13

TABLE 34 (CONT'D)

RESIDENT DEATHS IN HAWAII, LEADING CAUSES OF DEATH FOR AGE GROUPS

STATE OF HAWAII 1985

	Total	Male	Female
35-44 YEAR OLD - TOTAL	207	133	74
1. Malignant Neoplasm	51	23	28
2. Diseases of the Heart	41	30	11
3. Suicide	12	6	6
3. Accidents (less Motor V.)	12	12	0
5. Cerebrovascular Diseases	11	5	6
6. Motor Vehicle Accidents	10	7	3
6. Homicide & Legal Interv.	10	8	2
8. Diabetes Mellitus	5	4	1
9. Influenza & Pneumonia	3	2	1
All Other Causes	52	36	16

	Total	Male	Female
65-74 YEAR OLD - TOTAL	1,311	844	467
1. Diseases of the Heart	443	308	135
2. Malignant Neoplasm	424	274	150
3. Cerebrovascular Diseases	87	45	42
4. Diabetes Mellitus	38	21	17
5. Influenza & Pneumonia	36	27	9
6. Bronchitis, Emphysema, Asthma	19	12	7
7. Cirrhosis of the Liver	18	15	3
8. Nephritis & Nephrosis	17	9	8
9. Suicide	13	7	6
10. Arteriosclerosis	11	6	5
All Other Causes	205	120	85

	Total	Male	Female
45-54 YEAR OLD - TOTAL	322	203	119
1. Malignant Neoplasm	133	77	56
2. Diseases of the Heart	97	71	26
3. Cirrhosis of the Liver	18	12	6
4. Cerebrovascular Diseases	15	10	5
5. Accidents (less Motor V.)	8	6	2
6. Motor Vehicle Accidents	6	2	4
7. Suicide	5	2	3
7. Diabetes Mellitus	5	2	3
9. Homicide & Legal Interv.	3	1	2
All Other Causes	32	20	12

	Total	Male	Female
75-84 YEAR OLD - TOTAL	1,478	907	571
1. Diseases of the Heart	545	337	208
2. Malignant Neoplasm	320	201	119
3. Cerebrovascular Diseases	147	81	66
4. Influenza & Pneumonia	83	57	26
5. Diabetes Mellitus	33	16	17
6. Bronchitis, Emphysema, Asthma	20	9	11
7. Nephritis & Nephrosis	18	12	6
7. Accidents (less Motor V.)	18	13	5
9. Arteriosclerosis	14	11	3
10. Cirrhosis of the Liver	8	4	4
All Other Causes	272	166	106

	Total	Male	Female
55-64 YEAR OLD - TOTAL	933	586	347
1. Malignant Neoplasm	349	211	138
2. Diseases of the Heart	307	214	93
3. Cerebrovascular Diseases	57	23	34
4. Diabetes Mellitus	35	24	11
5. Cirrhosis of the Liver	28	21	7
6. Influenza & Pneumonia	17	11	6
7. Suicide	14	10	4
8. Accidents (less Motor V.)	12	7	5
9. Bronchitis, Emphysema, Asthma	11	8	3
10. Motor Vehicle Accidents	5	3	2
All Other Causes	98	54	44

	Total	Male	Female
OVER 84 YEARS OLD - TOTAL	997	412	585
1. Diseases of the Heart	409	151	258
2. Cerebrovascular Diseases	108	46	62
3. Influenza & Pneumonia	104	42	62
4. Malignant Neoplasm	103	53	50
5. Arteriosclerosis	34	8	26
6. Diabetes Mellitus	22	7	15
7. Nephritis & Nephrosis	14	7	7
8. Accidents (less Motor V.)	10	3	7
9. Bronchitis, Emphysema, Asthma	8	3	5
All Other Causes	185	92	93

TABLE 35

TOTAL RESIDENT DEATHS BY COUNTY AND BY SELECTED CAUSES OF DEATH

STATE OF HAWAII 1985

	STATE TOTAL[a]		HAWAII COUNTY		HONOLULU COUNTY		KAUAI COUNTY		MAUI COUNTY	
	NUMBER	RATE[b]	NUMBER	RATE[b]	NUMBER	RATE[b]	NUMBER	RATE[b]	NUMBER	RATE[b]
TOTAL DEATHS	5751	545.7	715	655.0	4294	527.1	256	571.7	486	569.7
TUBERCULOSIS, ALL FORMS (010-018,137)	8	0.8	2	1.8	5	0.6	1	2.2		
SYPHILIS AND ITS SEQUELAE (090-097)										
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	61	5.8	4	3.7	51	6.3	3	6.7	3	3.5
MALIGNANT NEOPLASM (140-208)	1421	134.8	159	145.7	1087	133.4	63	140.7	112	131.3
DIGESTIVE ORGANS (150-159)	467	44.3	57	52.2	348	42.7	15	33.5	47	55.1
RESPIRATORY SYSTEM (160-163)	324	30.7	29	26.6	262	32.2	20	44.7	13	15.2
BREAST (174-175)	109	10.3	9	8.2	91	9.9	7	15.6	12	14.1
GENITAL ORGANS (179-187)	142	13.5	17	15.6	104	12.8	10	22.3	11	12.9
URINARY ORGANS (188-189)	40	3.8	5	4.6	29	3.6	2	4.5	4	4.7
LEUKEMIA (204-208)	61	5.8	7	6.4	49	6.0	2	4.5	3	3.5
OTHER (140-203)	278	26.4	35	32.1	214	26.3	7	15.6	22	25.9
DIABETES MELLITUS (250)	138	13.1	26	23.8	83	10.2	9	20.1	20	23.4
DISEASE OF CIRCULATORY SYSTEM (390-459)	2429	230.5	327	299.6	1762	216.3	107	238.9	233	273.1
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	1860	176.5	234	214.4	1357	166.6	92	205.4	177	207.5
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	19	1.8	1	0.9	12	1.5	2	4.5	4	4.7
HYPERTENSIVE HEART (402,404)	71	6.7	13	11.9	41	5.0	12	26.8	5	5.9
ISCHEMIC HEART (410-414)	1114	105.7	164	150.2	800	98.2	50	111.7	100	117.2
OTHER HEART DISEASE (415-417,420-429)	656	62.2	56	51.3	504	61.9	28	62.5	68	79.7
HYPERTENSION (401,403)	19	1.8	1	0.9	17	2.1			1	1.2
CEREBROVASCULAR DISEASE (430-438)	430	40.8	72	66.0	302	37.1	11	24.6	45	52.8
ARTERIOSCLEROSIS (440)	61	5.8	9	8.2	47	5.8	3	6.7	2	2.3
OTHER CIRCULATORY (441-459)	59	5.6	11	10.1	39	4.8	1	2.2	8	9.4
INFLUENZA/PNEUMONIA (480-487)	254	24.1	27	24.7	200	24.6	6	13.4	21	24.6
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	61	5.8	7	6.4	48	5.9	3	6.7	3	3.5
PEPTIC ULCER (531-533)	15	1.4	2	1.8	10	1.2			3	3.5
CIRRHOSIS OF LIVER (571)	78	7.4	10	9.2	60	7.4	5	11.2	3	3.5
NEPHRITIS AND NEPHROSIS (580-589)	53	5.0	8	7.3	38	4.7	1	2.2	6	7.0
COMPLICATIONS OF PREGNANCY CHILDBIRTH & PUERPERIUM (630-676)	2	0.2			2	0.2				
CONGENITAL ANOMALIES (740-759)	55	5.2	3	2.7	51	6.3	1	2.2		
PERINATAL CONDITIONS (760-779)	77	7.3	5	4.6	60	7.4	5	11.2	7	8.2
SYMPTOMS & ILL-DEFINED COND (780-799)	55	5.2	3	2.7	48	5.9			4	4.7
ALL OTHER DISEASES (BLANKS,000-799)	645	61.2	87	79.7	479	58.8	33	73.7	46	53.9
ACCIDENTAL DEATHS (800-949)	235	22.3	30	27.5	174	21.4	13	29.0	18	21.1
MOTOR VEHICLE (810-825)	127	12.1	22	20.2	88	10.8	9	20.1	8	9.4
OTHER TRANS. (800-807,826-948)	12	1.1	1	0.9	10	1.2			1	1.2
POISONING (950-969)	3	0.3			3	0.4				
FALLS (880-888)	31	2.9	4	3.7	24	2.9	2	4.5	1	1.2
FIRES (890-899)	4	0.4			4	0.5				
DROWNING & SUBMERSIONS (910)	29	2.8	1	0.9	25	3.1	2	4.5	1	1.2
FIREARM MISSILES (922)	1	0.1			1	0.1				
ADVERSE EFFECTS (930-949)										
OTHER ACCIDENTS (800-949)	28	2.7	2	1.8	19	2.3			7	9.2
SUICIDE (950-959)	95	9.0	9	8.2	79	9.7	4	8.9	3	3.5
HOMICIDE & LEGAL INTERVENTION (960-978)	36	3.4	3	2.7	32	3.9			1	1.2
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	33	3.1	3	2.7	25	3.1	2	4.5	3	3.5

[a] INCLUDES KALAWAO

[b] RATE PER 100,000 TOTAL RESIDENT POPULATION (MAUI COUNTY INCLUDES KALAUPAPA)

TABLE 35A

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
STATE OF HAWAII 1985

CAUSES OF DEATH	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	3416	2335	85	74	14	11	6	8	8	9	15	8	18	10	60	9	58	20	67	23	70	35
TUBERCULOSIS, ALL FORMS (010-018,137)	5	3										1										
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	40	21		1								1					2	1	1	1	1	
MALIGNANT NEOPLASM (140-208)	869	552			2	1	3	3	2	2			1		4	1	6	1	12	3	12	14
DIGEST. ORGANS (150-159)	304	163																	1		3	1
RESPIRATORY SYSTEM (160-163)	237	87																	1		2	1
BREAST (174-175)	1	108																				5
GENITAL ORGANS (179-187)	77	65																	1			2
URINARY ORGANS (188-189)	29	11																				
LEUKEMIA (204-208)	35	26				1		2	1	1					1	1	1	1	2	1		2
OTHER (140-208)	186	92			2		3	1	1	1			1		3		5		7	2	7	3
DIABETES MELLITUS (250)	74	64																			1	
DISEASE OF CIRCULATORY SYSTEM (390-459)	1412	1017	1	1			1		1				1	1	3		2	1	9	2	19	9
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	1125	735	1	1			1		1				1	1	3		1		6	2	14	6
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	10	9													2				1	1	1	
HYPERTENSIVE HEART (402,404)	35	36																				
ISCHEMIC HEART (410-414)	689	425																	5	1	6	2
OTHER HEART DISEASE (415-417,420-429)	391	265	1	1			1		1				1	1	1		1				7	4
HYPERTENSION (401,403)	7	12																				1
CEREBROVASCULAR DISEASE (430-438)	214	216															1	1	3		3	2
ARTERIOSCLEROSIS (440)	26	35																				
OTHER CIRCULATORY (441-459)	40	19																			2	
INFLUENZA/PNEUMONIA (480-487)	144	110	1	2	1	1				1							1	1	1	1		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	34	27									1		1									
PEPTIC ULCER (531-533)	11	4																				
CIRRHOSIS OF LIVER (571)	56	22		2													1					
NEPHRITIS AND NEPHROSIS (580-589)	31	22																			1	
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)		2														1				1		
CONGENITAL ANOMALIES (740-759)	28	27	22	20	2			1						1	1							
PERINATAL CONDITIONS (760-779)	40	37	40	37																		
SYMPTOMS & ILL-DEFINED COND (780-799)	30	25	12	10	2	1					1						1		3		1	
ALL OTHER DISEASES (BLANKS,000-739)	364	281	9		3	4		2		2	2			2	2	1	11	2	9	6	7	5
ACCIDENTAL DEATHS (800-949)	168	67		1	4	4	2	1	4	3	7	4	9	5	36	2	19	6	15	5	11	2
MOTOR VEHICLE (810-825)	89	38			1	1	1	1	2	2	6	4	6	5	27	2	12	6	8	5	5	2
OTHER TRANS. (800-807,826-848)	12														1		3		2		3	
POISONING (850-869)	2	1													1				1			
FALLS (880-888)	19	12			1				1		1				2		1		2		1	
FIRES (890-899)	2	2																				
DROWNING & SUBMERSIONS (910)	24	5			2	3	1		1	1			3		4		1		1		2	
FIREARM MISSILES (922)	1														1							
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	19	9		1													2		1			
SUICIDE (950-959)	66	29								1	2	1	4		12	1	10	5	10	2	4	1
HOMICIDE & LEGAL INTERVENTION (960-978)	21	15						1	1		1	1	1		1	3	3	2	5	1	4	2
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	23	10									1		1	1	1		2	1	2	1	9	2

TABLE 35A (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
STATE OF HAWAII 1985

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	63	39	83	51	120	68	253	141	333	206	380	234	464	233	479	266	428	305	412	585		
TUBERCULOSIS, ALL FORMS (010-018,137)										1			1		2		1		1	1		
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	1						1	2	5	2	6	2	3		4	2	10	4	6	5		
MALIGNANT NEOPLASM (140-208)	11	14	30	22	47	34	96	56	115	82	131	79	143	71	111	65	90	54	53	50		
DIGEST. ORGANS (150-159)	1	1	12	4	20	9	28	19	40	25	53	16	53	24	47	25	32	13	14	26		
RESPIRATORY SYSTEM (160-163)	3	1	8	3	18	2	39	10	41	16	43	19	38	11	19	11	13	5	12	8		
BREAST (174-175)		6		7		10		12		17		18		12	1	10		8		3		
GENITAL ORGANS (179-187)		1		3		6	3	5	3	15	10	6	15	9	17	8	18	9	10	1		
URINARY ORGANS (188-189)					2		3	1	7	1	3	5	8		1		3	2	2	2		
LEUKEMIA (204-208)	2		1	2	3		4	1	3	2	4		4	4	6	2	1	3	2	3		
OTHER (140-208)	5	5	9	3	4	7	19	8	21	6	18	15	25	11	20	9	23	14	13	7		
DIABETES MELLITUS (250)	3	1	2	2		1	12	2	12	9	8	10	13	7	8	5	8	12	7	15		
DISEASE OF CIRCULATORY SYSTEM (390-459)	18	10	34	16	48	17	100	54	144	77	155	92	218	99	243	135	206	149	209	354		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	16	5	28	12	43	14	90	41	124	52	134	69	174	66	183	100	154	108	151	258		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	2	1				1		1		2		1	1		2	1	1			1		
HYPERTENSIVE HEART (402,404)					1	3	2	1	1	3	6	3	4	1	8	7	10	7	3	11		
ISCHEMIC HEART (410-414)	9	1	20	9	29	2	57	22	75	32	81	44	109	41	101	57	102	72	95	142		
OTHER HEART DISEASE (415-417,420-429)	5	3	8	3	13	8	31	17	48	15	47	21	60	24	72	35	41	29	53	104		
HYPERTENSION (401,403)								1	1	1		3	1	3	4			1	1	2		
CEREBROVASCULAR DISEASE (430-438)	2	4	6	4	4	1	8	12	15	22	17	17	28	25	39	31	42	35	46	62		
ARTERIOSCLEROSIS (440)									1	1	2	2	4	3	7	1	4	2	8	26		
OTHER CIRCULATORY (441-459)		1			1	2	2		3	1	2	1	11	2	10	3	6	3	3	6		
INFLUENZA/PNEUMONIA (480-487)	2	1			1		3	4	8	2	11	3	16	6	22	12	35	14	42	62		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)		1					3		5	3	5	3	7	4	7	4	2	7	3	5		
PEPTIC ULCER (531-533)							2	1	1		1		4	1	2				1	2		
CIRRHOSIS OF LIVER (571)	2		4	2	8	4	9	3	12	4	10	3	5		2	2	2	2	1			
NEPHRITIS AND NEPHROSIS (580-589)			1					1	1		3	4	6	4	2	1	10	5	7	7		
COMPLICATIONS OF PREG. CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)		1	1			1	1	1								1	1	1				
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)	1							2				1	3	3		1	4	1	2	6		
ALL OTHER DISEASES (BLANKS,000-799)	9	5	4	3	9	6	16	6	20	21	40	27	35	33	62	34	52	51	74	71		
ACCIDENTAL DEATHS (800-949)	8	1	4	3	4	3	4	4	6	3	5	6	7	2	13	3	6	2	4	7		
MOTOR VEHICLE (810-825)	2	1	1	2	1	2	1	2	2		2	2	5	1	5		1		1			
OTHER TRANS. (800-807,826-848)	2								1													
POISONING (850-869)								1														
FALLS (880-888)					1		1	1	1	2			1	1	3	2	2	2	1	4		
FIRES (890-899)						1									2	1						
DROWNING & SUBMERSIONS (910)	1		1		2		2		1		1	1	1									
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	3		2	1					1	1	2	3			3		3		2	3		
SUICIDE (950-959)	2	5	1	2	1	1	6	2	4	2	4	3	3	3	1		1		1			
HOMICIDE & LEGAL INTERVENTION (960-978)	4			1	1	1		2				1										
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	2		2		1			1			1					1		3	1			

TABLE 35B

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HONOLULU COUNTY 1985

CAUSES OF DEATH	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	2513	1781	69	60	13	9	4	8	8	8	13	5	14	9	54	9	42	18	52	17	53	24
TUBERCULOSIS, ALL FORMS (010-018,137)	4	1										1										
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	32	19		1													2	1	1	1	1	
MALIGNANT NEOPLASM (140-208)	657	430			2		3	3	2	2			1		4	1	6		9	2	11	10
DIGEST. ORGANS (150-159)	224	124																	1		3	1
RESPIRATORY SYSTEM (160-163)	187	75																	1		2	1
BREAST (174-175)	1	80																				3
GENITAL ORGANS (179-187)	53	51																				1
URINARY ORGANS (188-189)	22	7																				
LEUKEMIA (204-208)	29	20						2	1	1					1	1	1		1			1
OTHER (140-208)	141	73			2		3	1	1	1			1		3		5		6	2	6	3
DIABETES MELLITUS (250)	46	37																				
DISEASE OF CIRCULATORY SYSTEM (390-459)	1004	758	1						1				1	1	3		2	1	8		14	7
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	809	548	1						1				1	1	3		1		6		10	5
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	6	6													2				1		1	
HYPERTENSIVE HEART (402,404)	20	21																				
ISCHEMIC HEART (410-414)	482	318																	5		3	2
OTHER HEART DISEASE (415-417,420-429)	301	203	1						1				1	1	1		1				6	3
HYPERTENSION (401,403)	6	11																				1
CEREBROVASCULAR DISEASE (430-438)	147	155															1	1	2		2	1
ARTERIOSCLEROSIS (440)	18	29																				
OTHER CIRCULATORY (441-459)	24	15																			2	
INFLUENZA/PNEUMONIA (480-487)	110	90		2	1	1				1							1	1	1	1		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	25	23									1											
PEPTIC ULCER (531-533)	7	3																				
CIRRHOSIS OF LIVER (571)	45	15		1													1					
NEPHRITIS AND NEPHROSIS (580-589)	21	17																			1	
COMPLICATIONS OF PRG, CHILDBIRTH & PUERPERIUM (630-676)		2														1				1		
CONGENITAL ANOMALIES (740-759)	26	25	20	18	2			1						1	1							
PERINATAL CONDITIONS (760-779)	31	29	31	29																		
SYMPTOMS & ILL-DEFINED COND (780-799)	25	23	8	8	2	1					1						1		3		1	
ALL OTHER DISEASES (BLANKS,000-139)	260	219	9		3	4		2		2	2			1	2	1	4	2	4	4	7	3
ACCIDENTAL DEATHS (800-949)	129	45		1	3	3	1	1	4	2	5	2	7	5	32	2	11	5	12	4	6	
MOTOR VEHICLE (810-825)	63	25			1	1		1	2	1	4	2	4	5	23	2	4	5	5	4	3	
OTHER TRANS. (800-807,826-848)	10														1		3		2		2	
POISONING (850-869)	2	1													1				1			
FALLS (880-888)	15	9			1				1		1				2		1		2			
FIRES (890-899)	2	2																				
DROWNING & SUBMERSIONS (910)	21	4			1	2	1		1	1			3		4		1		1		1	
FIREARM MISSILES (922)	1														1							
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	15	4		1													2		1			
SUICIDE (950-959)	55	24								1	2	1	3		10	1	10	5	9	2	2	
HOMICIDE & LEGAL INTERVENTION (960-978)	19	13						1	1		1	1	1		1	3	2	2	4	1	4	2
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	17	8									1		1	1	1		2	1	1	1	6	2

TABLE 35B (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HONOLULU COUNTY 1985

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	49	30	66	38	93	54	195	106	249	152	277	178	335	182	344	199	309	237	274	438		
TUBERCULOSIS, ALL FORMS (010-018,137)													1		2		1					
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	1						1	2	4	1	6	2	3		4	2	6	4	3	5		
MALIGNANT NEOPLASM (140-208)	9	11	23	18	37	30	70	43	56	63	93	61	106	52	81	51	68	43	36	40		
DIGEST. ORGANS (150-159)		1	10	3	13	8	20	13	35	17	38	13	39	17	31	18	23	11	11	22		
RESPIRATORY SYSTEM (160-163)	3	1	5	3	17	2	29	9	33	13	33	18	27	11	16	10	12	3	9	4		
BREAST (174-175)		4		5		9		8		13		11		8	1	9		7		3		
GENITAL ORGANS (179-187)				3		6	1	4	2	13	6	4	11	7	14	6	13	6	6	1		
URINARY ORGANS (188-189)					2		2	1	6		3	2	6				2	2	1	2		
LEUKEMIA (204-208)	1		1	2	3		4	1	3	2	3		4	2	4	2		3	2	3		
OTHER (140-208)	5	5	7	2	2	5	14	7	17	5	10	13	19	7	15	6	18	11	7	5		
DIABETES MELLITUS (250)	3	1		1		1	7	2	7	6	5	4	8	3	6	2	5	6	5	11		
DISEASE OF CIRCULATORY SYSTEM (390-459)	13	7	28	12	37	12	78	41	102	59	110	74	156	77	168	94	144	117	138	256		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	11	3	22	9	33	11	72	33	91	42	98	53	123	51	133	68	104	85	99	187		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)		1						1		2		1			2	1						
HYPERTENSIVE HEART (402,404)					1	2	2		1	1	4	1	2	1	4	5	5	5	1	6		
ISCHEMIC HEART (410-414)	6		17	7	21	1	40	16	48	26	54	32	77	31	71	37	75	60	65	106		
OTHER HEART DISEASE (415-417,420-429)	5	2	5	2	11	8	30	16	42	13	40	19	44	19	56	25	24	20	33	75		
HYPERTENSION (401,403)								1	1	1		3	1	2	3			1	1	2		
CEREBROVASCULAR DISEASE (430-438)	2	3	6	3	3		5	7	7	14	11	16	22	19	24	23	33	26	29	42		
ARTERIOSCLEROSIS (440)									1	1	1	2	4	3	2	1	4	2	6	20		
OTHER CIRCULATORY (441-459)		1			1	1	1		2	1			6	2	6	2	3	3	3	5		
INFLUENZA/PNEUMONIA (480-487)	2						2	3	5	1	10	1	11	5	15	9	29	12	33	53		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)		1					3		4	3	3	2	6	4	5	4	1	5	2	4		
PEPTIC ULCER (531-533)							2	1			1		1	1	2				1	1		
CIRRHOSIS OF LIVER (571)	2		3		7	3	8	2	8	3	7	2	5		1	2	2	2	1			
NEPHRITIS AND NEPHROSIS (580-589)			1						1		3	4	2	4	2		8	3	3	6		
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)		1	1			1	1	1								1	1	1				
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)								2				1	3	3		1	4	1	2	6		
ALL OTHER DISEASES (BLANKS,000-799)	7	4	3	3	7	4	16	3	16	12	30	22	24	28	46	30	33	40	47	53		
ACCIDENTAL DEATHS (800-949)	4	1	4	2	3	2	4	2	3	2	4	2	7	2	11	2	6	2	2	3		
MOTOR VEHICLE (810-825)	1	1	1	1	1	1	1				1		5	1	5		1		1			
OTHER TRANS. (800-807,826-848)	1								1													
POISONING (850-869)								1														
FALLS (880-888)					1		1	1		1			1	1	2	1	2	2		3		
FIRES (890-899)						1									2	1						
DROWNING & SUBMERSIONS (910)	1		1		1		2		1		1	1	1									
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	1		2	1					1	1	2	1			2		3		1			
SUICIDE (950-959)	2	4	1	1	1		3	2	3	1	4	3	2	3	1		1		1			
HOMICIDE & LEGAL INTERVENTION (960-978)	4			1	1	1		1														
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	2		2					1			1					1		1			

TABLE 35C

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HAWAII COUNTY 1985

CAUSES OF DEATH UNKNOWN SEX IN MALE CATEG.	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	450	265	6	5	1		2			1	1	2	3		5		5		12	5	9	4
TUBERCULOSIS, ALL FORMS (010-018,137)	1	1																				
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	3	1																				
MALIGNANT NEOPLASM (140-208)	105	54																	2	1		1
DIGEST. ORGANS (150-159)	36	21																				
RESPIRATORY SYSTEM (160-163)	22	7																				
BREAST (174-175)		9																				1
GENITAL ORGANS (179-187)	11	6																				
URINARY ORGANS (188-189)	5																					
LEUKEMIA (204-208)	5	2																	1	1		
OTHER (140-208)	26	9																	1			
DIABETES MELLITUS (250)	14	12																				
DISEASE OF CIRCULATORY SYSTEM (390-459)	198	129		1			1												1	1	5	
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	144	90		1			1													1	4	
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	1																					
HYPERTENSIVE HEART (402,404)	6	7																				
ISCHEMIC HEART (410-414)	101	63																		1	3	
OTHER HEART DISEASE (415-417,420-429)	36	20		1			1														1	
HYPERTENSION (401,403)	1																					
CEREBROVASCULAR DISEASE (430-438)	41	31																	1		1	
ARTERIOSCLEROSIS (440)	4	5																				
OTHER CIRCULATORY (441-459)	8	3																				
INFLUENZA/PNEUMONIA (480-487)	19	8																				
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	4	3											1									
PEPTIC ULCER (531-533)	2																					
CIRRHOSIS OF LIVER (571)	7	3																				
NEPHRITIS AND NEPHROSIS (580-589)	6	2																				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)	2	1	2	1																		
PERINATAL CONDITIONS (760-779)	3	2	3	2																		
SYMPTOMS & ILL-DEFINED COND (780-799)	2	1	1	1																		
ALL OTHER DISEASES (BLANKS,000-799)	53	34															2		4	2		2
ACCIDENTAL DEATHS (800-949)	19	11			1		1			1	1	2	1		4		2		2	1	2	1
MOTOR VEHICLE (810-825)	14	8					1			1	1	2	1		4		2		2	1	1	1
OTHER TRANS. (800-807,826-848)	1																				1	
POISONING (850-869)																						
FALLS (880-888)	3	1																				
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)	1				1																	
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)		2																				
SUICIDE (950-959)	7	2											1		1				1		1	
HOMICIDE & LEGAL INTERVENTION (960-978)	2	1															1		1			
ALL OTHER EXTERNAL CAUSES (900-999,XXXX)	3																		1		1	

TABLE 35C (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
HAWAII COUNTY 1985

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	4	3	5	6	14	7	31	19	38	28	52	18	62	30	68	33	69	32	63	72		
TUBERCULOSIS, ALL FORMS (010-018,137)																			1	1		
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)										1							2		1			
MALIGNANT NEOPLASM (140-208)			1	2	5	3	15	6	10	11	20	4	19	11	16	8	10	2	7	5		
DIGEST. ORGANS (150-159)					3	1	3	2	4	5	6	2	7	5	8	3	4		1	3		
RESPIRATORY SYSTEM (160-163)							8	1	3	3	5		2		2	1	1		1	2		
BREAST (174-175)				1		1		2		1		2		1								
GENITAL ORGANS (179-187)							1			1	3		3	2	2	2	2	1				
URINARY ORGANS (188-189)							1						2				1		1			
LEUKEMIA (204-208)											1			1	2		1					
OTHER (140-208)			1	1	2	1	2	1	3	1	5		5	2	2	2	1	1	4			
DIABETES MELLITUS (250)							3		1	1	2	3	3	3	2	1	2	3	1	1		
DISEASE OF CIRCULATORY SYSTEM (390-459)	2	1	2	2	6	1	10	8	18	10	21	9	28	11	38	17	34	15	32	53		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	2	1	2	2	5		7	5	15	8	15	8	22	7	25	15	25	9	21	33		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	1																					
HYPERTENSIVE HEART (402,404)								1		1			1		1	1	3	2	1	2		
ISCHEMIC HEART (410-414)	1	1	1	2	5		6	3	13	6	13	6	16	5	16	12	14	4	13	23		
OTHER HEART DISEASE (415-417,420-429)			1				1	1	2	1	2	2	5	2	8	2	8	3	7	8		
HYPERTENSION (401,403)															1							
CEREBROVASCULAR DISEASE (430-438)					1		3	3	3	2	4		3	4	9	2	7	6	9	14		
ARTERIOSCLEROSIS (440)											1				1				2	5		
OTHER CIRCULATORY (441-459)						1					1	1	3		2		2			1		
INFLUENZA/PNEUMONIA (480-487)		1			1		1		2		1		2	1	3	2	6		3	4		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)									1				1		1			2		1		
PEPTIC ULCER (531-533)													2									
CIRRHOSIS OF LIVER (571)			1	1				1	3	1	3											
NEPHRITIS AND NEPHROSIS (580-589)													2			1	2	1	2			
COMPLICATIONS OF PREG. CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)	1																					
ALL OTHER DISEASES (BLANKS,000-799)	1		1		1	1		2	1	4	4	1	4	4	7	3	13	9	15	6		
ACCIDENTAL DEATHS (800-949)				1		1		1	2		1	1			1	1			1	1		
MOTOR VEHICLE (810-825)				1		1		1	1		1											
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																						
FALLS (880-888)									1						1	1			1			
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)																						
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)												1								1		
SUICIDE (950-959)		1				1	2						1									
HOMICIDE & LEGAL INTERVENTION (960-978)								1														
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)					1																	

TABLE 35D

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
KAUAI COUNTY 1985

CAUSES OF DEATH (UNKNOWN SEX IN MALE CATEG.)	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	158	98	2	5		1					1		1	1			3	2		1	1	3
TUBERCULOSIS, ALL FORMS (010-018,137)		1																				
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	3																					
MALIGNANT NEOPLASM (140-208)	40	23																1				2
DIGEST. ORGANS (150-159)	13	2																				
RESPIRATORY SYSTEM (160-163)	15	5																				
BREAST (174-175)		7																				
GENITAL ORGANS (179-187)	7	3																				1
URINARY ORGANS (188-189)	1	1																				
LEUKEMIA (204-208)		2																1				1
OTHER (140-208)	4	3																				
DIABETES MELLITUS (250)	5	4																			1	
DISEASE OF CIRCULATORY SYSTEM (390-459)	65	42																		1		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	57	35																		1		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	1	1																		1		
HYPERTENSIVE HEART (402,404)	6	6																				
ISCHEMIC HEART (410-414)	36	14																				
OTHER HEART DISEASE (415-417,420-429)	14	14																				
HYPERTENSION (401,403)																						
CEREBROVASCULAR DISEASE (430-438)	4	7																				
ARTERIOSCLEROSIS (440)	3																					
OTHER CIRCULATORY (441-459)	1																					
INFLUENZA/PNEUMONIA (480-487)	5	1																				
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	2	1																				
PEPTIC ULCER (531-533)																						
CIRRHOSIS OF LIVER (571)	2	3		1																		
NEPHRITIS AND NEPHROSIS (580-589)	1																					
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)		1		1																		
PERINATAL CONDITIONS (760-779)	2	3	2	3																		
SYMPTOMS & ILL-DEFINED COND (780-799)																						
ALL OTHER DISEASES (BLANKS,000-799)	25	8												1			1					
ACCIDENTAL DEATHS (800-949)	6	7				1					1		1				2	1				1
MOTOR VEHICLE (810-825)	5	4									1		1				2	1				1
OTHER TRANS. (800-807,826-348)																						
POISONING (850-869)																						
FALLS (880-888)		2																				
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)	1	1				1																
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)																						
SUICIDE (950-959)	2	2																				
HOMICIDE & LEGAL INTERVENTION (960-378)																						
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)		2																				

TABLE 35D (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
KAUAI COUNTY 1985

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	2	2	6	3	4	2	9	2	19	10	13	10	25	7	21	12	18	13	33	24		
TUBERCULOSIS, ALL FORMS (010-018,137)										1												
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)									1										2			
MALIGNANT NEOPLASM (140-208)			4	1	1		5		4	4	6	4	7	1	5	2	4	5	4	3		
DIGEST. ORGANS (150-159)			1		1		2		1		3		3		1	1		1	1			
RESPIRATORY SYSTEM (160-163)			3				2		2		2	1	4					2	2	2		
BREAST (174-175)				1						3		2		1								
GENITAL ORGANS (179-187)							1		1	1					1		3	1	1			
URINARY ORGANS (188-139)												1			1							
LEUKEMIA (204-208)																						
OTHER (140-208)											1				2	1	1	1		1		
DIABETES MELLITUS (250)			2						2	1		1		1						1		
DISEASE OF CIRCULATORY SYSTEM (390-459)	2	2			2	1	3	2	8	2	5	2	10	5	10	9	10	6	15	12		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	2	1			2	1	3	1	7	1	5	2	9	4	6	7	9	6	14	11		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	1																					
HYPERTENSIVE HEART (402,404)						1				1	1	2			2		2		1	2		
ISCHEMIC HEART (410-414)	1				1		3	1	6		2		6	3	3	2	5	3	9	5		
OTHER HEART DISEASE (415-417,420-429)		1			1				1		2		3	1	1	5	2	3	4	4		
HYPERTENSION (401,403)																						
CEREBROVASCULAR DISEASE (430-438)		1						1	1	1			1	1	1	2			1	1		
ARTERIOSCLEROSIS (440)															3							
OTHER CIRCULATORY (441-459)																	1					
INFLUENZA/PNEUMONIA (480-487)													3						2	1		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)											1	1					1					
PEPTIC ULCER (531-533)																						
CIRRHOSIS OF LIVER (571)				1		1			1						1							
NEPHRITIS AND NEPHROSIS (580-589)																			1			
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)																						
ALL OTHER DISEASES (BLANKS,000-799)									1		1		5		5	1	3		9	6		
ACCIDENTAL DEATHS (800-949)					1				1	1		2								1		
MOTOR VEHICLE (810-825)									1			2										
OTHER TRANS. (800-807,826-848)																						
POISONING (850-869)																						
FALLS (830-838)										1										1		
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)					1																	
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)																						
SUICIDE (950-959)				1			1		1	1												
HOMICIDE & LEGAL INTERVENTION (960-978)																						
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)																		2				

TABLE 35E

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
MAUI COUNTY 1985

CAUSES OF DEATH (UNKNOWN SEX IN MALE CATEG.)	ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	295	191	8	4		1						1			1		8		3		7	4
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)	2	1										1										
MALIGNANT NEOPLASM (140-208)	67	45				1													1		1	1
DIGEST. ORGANS (150-159)	31	16																				
RESPIRATORY SYSTEM (160-163)	13																					1
BREAST (174-175)		12																	1			
GENITAL ORGANS (179-187)	6	5																				
URINARY ORGANS (188-189)	1	3				1															1	
LEUKEMIA (204-208)	1	2																				
OTHER (140-208)	15	7																				
DIABETES MELLITUS (250)	9	11																				2
DISEASE OF CIRCULATORY SYSTEM (390-459)	145	88																				1
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	115	62																				
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)	2	2																				
HYPERTENSIVE HEART (402,404)	3	2																				
ISCHEMIC HEART (410-414)	70	30																				1
OTHER HEART DISEASE (415-417,420-429)	40	28																				1
HYPERTENSION (401,403)		1																				
CEREBROVASCULAR DISEASE (430-438)	22	23																				1
ARTERIOSCLEROSIS (440)	1	1																				
OTHER CIRCULATORY (441-459)	7	1																				
INFLUENZA/PNEUMONIA (480-487)	10	11	1																			
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)	3																					
PEPTIC ULCER (531-533)	2	1																				
CIRRHOSIS OF LIVER (571)	2	1																				
NEPHRITIS AND NEPHROSIS (580-589)	3	3																				
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)	4	3	4	3																		
SYMPTOMS & ILL-DEFINED COND (780-799)	3	1	3	1																		
ALL OTHER DISEASES (BLANKS,000-799)	26	20															4		1			
ACCIDENTAL DEATHS (300-949)	14	4															4		1		3	
MOTOR VEHICLE (810-825)	7	1															4		1		1	
OTHER TRANS. (300-807,826-848)	1																					
POISONING (850-869)																					1	
FALLS (880-888)	1																					
FIRES (890-899)																					1	
DROWNING & SUBMERSIONS (910)	1																					
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	4	3																				
SUICIDE (950-959)	2	1													1						1	1
HOMICIDE & LEGAL INTERVENTION (960-978)		1																				
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)	3																				2	

TABLE 35E (CONT'D)

RESIDENT DEATHS BY AGE GROUP, BY SEX AND BY SELECTED CAUSES OF DEATH
MAUI COUNTY 1985

UNKNOWN SEX IN MALE CATEG.	40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UN-KNOWN	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL DEATHS	8	4	6	4	9	5	18	14	27	16	38	28	42	14	46	22	32	23	42	51		
TUBERCULOSIS, ALL FORMS (010-018,137)																						
SYPHILIS AND ITS SEQUELAE (090-097)																						
OTHER INFECTIVE & PARASITIC DISEASES (000-139)																	2					
MALIGNANT NEOPLASM (140-208)	2	3	2	1	4	1	6	7	5	4	12	10	11	7	9	4	8	4	6	2		
DIGEST. ORGANS (150-159)	1		1	1	3		3	4		3	6	1	4	2	7	3	5	1	1	1		
RESPIRATORY SYSTEM (160-163)					1				3		3		5		1							
BREAST (174-175)		2						2				3		2		1		1				
GENITAL ORGANS (179-187)		1						1			1	2	1					1	3			
URINARY ORGANS (188-189)									1	1		2										
LEUKEMIA (204-208)	1													1								
OTHER (140-208)			1			1	3		1		2	2	1	2	1		3	1	2	1		
DIABETES MELLITUS (250)				1			2		2	1	1	2	2			2	1	3	1	2		
DISEASE OF CIRCULATORY SYSTEM (390-459)	1		4	2	3	3	9	3	16	6	19	7	24	6	27	15	18	11	24	33		
DISEASES OF HEART (390-398,402,404 410-414,415-417,420-429)	1		4	1	3	2	8	2	11	1	16	6	20	4	19	10	16	8	17	27		
RHEUMATIC FEVER AND CHRONIC RHEUMATIC HEART DISEASE (390-398)						1							1				1			1		
HYPERTENSIVE HEART (402,404)											1		1		1	1				1		
ISCHEMIC HEART (410-414)	1		2		2	1	8	2	8		12	6	10	2	11	6	8	5	8	8		
OTHER HEART DISEASE (415-417,420-429)			2	1	1				3	1	3		8	2	7	3	7	3	9	17		
HYPERTENSION (401,403)														1								
CEREBROVASCULAR DISEASE (430-438)				1		1		1	4	5	2	1	2	1	5	4	2	3	7	5		
ARTERIOSCLEROSIS (440)															1					1		
OTHER CIRCULATORY (441-459)							1		1		1		2		2	1						
INFLUENZA/PNEUMONIA (480-487)								1	1	1		2			4	1		2	4	4		
BRONCHITIS/EMPHYSEMA/ASTHMA (490-493)											1				1				1			
PEPTIC ULCER (531-533)									1				1							1		
CIRRHOSIS OF LIVER (571)					1		1					1										
NEPHRITIS AND NEPHROSIS (580-589)								1					2					1	1	1		
COMPLICATIONS OF PREG, CHILDBIRTH & PUERPERIUM (630-676)																						
CONGENITAL ANOMALIES (740-759)																						
PERINATAL CONDITIONS (760-779)																						
SYMPTOMS & ILL-DEFINED COND (780-799)																						
ALL OTHER DISEASES (BLANKS,000-739)	1	1			1	1		1	2	4	5	4	2	1	4		3	2	3	6		
ACCIDENTAL DEATHS (800-949)	4							1				1			1				1	2		
MOTOR VEHICLE (810-825)	1							1														
OTHER TRANS. (800-807,826-848)	1																					
POISONING (850-869)																						
FALLS (880-888)																						
FIRES (890-899)																						
DROWNING & SUBMERSIONS (910)																						
FIREARM MISSILES (922)																						
ADVERSE EFFECTS (930-949)																						
OTHER ACCIDENTS (800-949)	2											1			1				1	2		
SUICIDE (950-959)																						
HOMICIDE & LEGAL INTERVENTION (960-978)												1										
ALL OTHER EXTERNAL CAUSES (800-999,XXXX)																			1			

TABLE 36

TOTAL RECORDED DEATHS FROM MALIGNANT NEOPLASM BY MAJOR AND SELECTED SITES, SEX, AND AGE
STATE OF HAWAII 1985

CAUSES OF DEATH		ALL AGES		UNDER 1 YR.		1-4 YRS.		5-9 YRS.		10-14 YRS.		15-17 YRS.		18-19 YRS.		20-24 YRS.		25-29 YRS.		30-34 YRS.		35-39 YRS.	
UNKNOWN SEX IN MALE CATEG.		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
BUCCAL CAVITY AND PHARYNX	140-149	24	9																	1			
LIP	140																						
TONGUE	141	6	4																				
SALIVARY GLAND	142	2	2																				
GUM	143		1																				
FLOOR OF MOUTH	144																						
OTHER & UNSPEC PARTS OF MOUTH	145	1																					
OROPHARYNX	146	4	1																				
NASOPHARYNX	147	5	1																				
HYPOPHARYNX	148	4																					
UNSPECIF BUCCAL CAVITY AND PHARYNX	149	2																		1			
DIGESTIVE ORGANS & PERITONEUM	150-159	314	167																	2		3	1
ESOPHAGUS	150	20	8																			1	
STOMACH	151	81	32																	1			1
SMALL INTESTINE & DUODENUM	152	3	3																				
LARGE INTESTINE	153	83	64																	1			
RECTUM & RECTOSIGMOID JUNCTION	154	22	14																				
LIVER AND INTRAHEPATIC BILE DUCTS	155	14	9																			1	
GALL BLADDER & BILE DUCTS	156	13	7																				
PANCREAS	157	57	25																			1	
PERITONEUM & RETROPERITONEAL TISS	158		1																				
UNSPEC DIGESTIVE ORGANS	159	1	4																				
RESPIRATORY SYSTEM	160-165	246	90															1		1		3	2
NOSE,NASAL CAV, MIDDLE EAR & ACCES	160	1																					
LARYNX	161	10	2																				
TRACHEA, BRONCHUS & LUNG	162	232	88																	1		2	2
OTHER AND UNSPECIFIED ORGANS	163-165	3																1				1	
BONE, CONN TISSUE, SKIN BREAST	170-175	25	120							1				1				1		3		1	6
BONE	170	5	1							1								1		1			
CONNECTIVE & OTHER SOFT TISSUE	171	4	2																				1
MELANOMA OF SKIN	172	10	6											1						1		1	
NEOPLASM OF SKIN	173	5																		1			
BREAST	174-175	1	111																				5
GENITOURINARY ORGANS	179-189	108	77																	1	1		2
CERVIC UTERI	180		18																		1		
PLACENTA	181																						
OTHER MALIG NEOPLASM OF UTERUS	179,182		17																				
OVARY, FALLOP TUBE & BROAD LIGAM	183		30																				2
OTHER & UNSPEC FEMALE GENITAL ORG	184		1																				
PROSTATE	185	75																					
TESTIS	186	2																		1			
OTHER & UNSPEC MALE GENITAL ORGAN	187																						
BLADDER	188	16	6																				
OTHER & UNSPEC URINARY ORGANS	189	15	5																				
OTHER AND UNSPECIFIED SITES	190-199	91	52	1		2		3			1			1		1		3		2	1	3	3
EYE	190																						
BRAIN	191	20	10			2		2			1					1		2			1	1	1
OTHER PARTS OF NERVOUS SYSTEM	192	1	1																	1			
THYROID GLAND	193	3	5																				
OTHER ENDOCRINE GLANDS	194	5		1				1						1				1					
ILL-DEFINED SITES	195																						
SECONDARY & UNSPECIFIED MALIGNANT NEOPLASM OF LYMPH NODES	196	4	1																				
SECONDARY MALIGNANT NEOPLASM OF RESPIRATORY & DIGESTIVE SYSTEMS	197																						
OTHER SECONDARY MALIG NEOPLASM	198	1																					
WITHOUT SPECIFICATION OF SITE	199	57	35																	1		2	2
LYMPHATIC & HEMATOPOIETIC TISS	200-208	92	59				1		3	2	1		1			3	1	1	1	4	3	3	2
LYMPHOSARCOMA & RETIC-CELL SARCO	200	6	1																			1	
HODGKINS DISEASE	201	4	2													1				2			
OTHER NEOPLASMS OF LYMPHOID TISS	202	28	17						1							1					1	1	
MULTIPLE MYELOMA	203	17	10																			1	
LYMPHATIC LEUKEMIA	204	6	6				1		1	1													
MYELOID LEUKEMIA	205	20	15							1	1		1			1	1	1	1	2	1		2
MONOCYTIC LEUKEMIA	206		1																				
OTHER AND UNSPECIFIED LEUKEMIA	207-208	11	7						1												1		
TOTAL MALIGNANT NEOPLASMS	140-208	900	574	1		2	1	3	5	3	2		1	1	1	4	1	6	1	14	5	13	16

TABLE 36 (CONT'D)
TOTAL RECORDED DEATHS FROM MALIGNANT NEOPLASM BY MAJOR AND SELECTED SITES, SEX, AND AGE
STATE OF HAWAII 1985

UNKNOWN SEX IN MALE CATEG.		40-44 YRS.		45-49 YRS.		50-54 YRS.		55-59 YRS.		60-64 YRS.		65-69 YRS.		70-74 YRS.		75-79 YRS.		80-84 YRS.		OVER 84		UNKNOWN	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
BUCCAL CAVITY AND PHARYNX	140-149			1		2				7	1	4	3	1	1	3		4	3	1	1		
LIP	140																						
TONGUE	141									1		2	2	1		1			2	1			
SALIVARY GLAND	142															1		1	1		1		
GUM	143														1								
FLOOR OF MOUTH	144																						
OTHER & UNSPEC PARTS OF MOUTH	145									1													
OROPHARYNX	146					1				1		1	1					1					
NASOPHARYNX	147			1		1				3	1												
HYPOPHARYNX	148									1		1				1		1					
UNSPECIF BUCCAL CAVITY AND PHARYNX	149																	1					
DIGESTIVE ORGANS & PERITONEUM	150-159	1	1	13	4	20	9	28	20	41	25	56	19	56	24	48	25	32	13	14	26		
ESOPHAGUS	150							2	1	4	3	3	1	2	1	7		1			2		
STOMACH	151	1	1	2		5	3	7	6	13	2	21	6	11	3	11	6	4	2	5	2		
SMALL INTESTINE & DUODENUM	152						1					1		1		1			2				
LARGE INTESTINE	153			1	2	5	2	5	7	6	10	16	6	18	11	12	11	16	3	3	12		
RECTUM & RECTOSIGMOID JUNCTION	154			1	2	1		1	2	5	3	4	1	6	2	3		1	1		3		
LIVER AND INTRAHEPATIC BILE DUCTS	155					6	1	3	2	5	3	3	1	7	1	6		3			1		
GALL BLADDER & BILE DUCTS	156			2		1	1	1		1	1	3	1	3			3	1	1	1			
PANCREAS	157			7		2	1	9	1	7	2	5	3	8	5	8	5	5	4	5	4		
PERITONEUM & RETROPERITONEAL TISS	158								1														
UNSPEC DIGESTIVE ORGANS	159										1				1			1			2		
RESPIRATORY SYSTEM	160-165	3	2	8	3	20	2	40	11	42	16	45	19	38	11	19	11	14	5	12	8		
NOSE,NASAL CAV, MIDDLE EAR & ACCES	160																			1			
LARYNX	161	1				2		1		3		2	2	1									
TRACHEA, BRONCHUS & LUNG	162	2	2	8	3	18	2	39	11	39	16	43	17	37	11	19	11	13	5	11	8		
OTHER AND UNSPECIFIED ORGANS	163-165																	1					
BONE, CONN TISSUE, SKIN BREAST	170-175	3	8	2	8	1	11	4	13		17	2	21	3	12	2	10	1	10	1	3		
BONE	170			1										1					1				
CONNECTIVE & OTHER SOFT TISSUE	171	1		1				1					1			1							
MELANOMA OF SKIN	172	2	1			1	1	1	1			1	2	2				1					
NEOPLASM OF SKIN	173							2				1								1			
BREAST	174-175		7		8		10		12		17		18		12	1	10		9		3		
GENITOURINARY ORGANS	179-189		1		3	2	6	6	6	10	16	13	11	23	9	18	8	22	11	13	3		
CERVIC UTERI	180						2		1		2		2		3		3		3		1		
PLACENTA	181																						
OTHER MALIG NEOPLASM OF UTERUS	179,182		1				1		2		5				4		2		2				
OVARY, FALLOP TUBE & BROAD LIGAM	183				3		3		2		8		4		2		3		3				
OTHER & UNSPEC FEMALE GENITAL ORG	184																		1				
PROSTATE	185							2		3		10		15		17		18		10			
TESTIS	186							1															
OTHER & UNSPEC MALE GENITAL ORGAN	187																						
BLADDER	188									1		3	2	7				3	2	2	2		
OTHER & UNSPEC URINARY ORGANS	189					2		3	1	6	1		3	1		1		1		1			
OTHER AND UNSPECIFIED SITES	190-199	1	4	4	1		2	10	6	10	4	8	8	15	8	10	4	10	8	7	2		
EYE	190																						
BRAIN	191	1					1	2	2	2		2	2	1	1	3	1			1			
OTHER PARTS OF NERVOUS SYSTEM	192										1												
THYROID GLAND	193		1				1	2	1							1			2				
OTHER ENDOCRINE GLANDS	194									1													
ILL-DEFINED SITES	195																						
SECONDARY & UNSPECIFIED MALIGNANT NEOPLASM OF LYMPH NODES	196													1	1	1		1		1			
SECONDARY MALIGNANT NEOPLASM OF RESPIRATORY & DIGESTIVE SYSTEMS	197																						
OTHER SECONDARY MALIG NEOPLASM	198																			1			
WITHOUT SPECIFICATION OF SITE	199		2	4	1			6	3	7	2	6	6	13	6	5	3	9	6	4	2		
LYMPHATIC & HEMATOPOIETIC TISS	200-208	4		3	4	6	4	9	2	5	2	10	4	12	8	12	8	8	5	6	8		
LYMPHOSARCOMA & RETIC-CELL SARCO	200	1					2			1	1							1					
HODGKINS DISEASE	201					1									1					1			
OTHER NEOPLASMS OF LYMPHOID TISS	202	1		2	2	3	2	1	1	2		4	2	4	1	3	3	4	2	2	2		
MULTIPLE MYELOMA	203						1	2		3		2	1	3	2	3	3	2		1	3		
LYMPHATIC LEUKEMIA	204									1				2				1	1	1	3		
MYELOID LEUKEMIA	205	1			1	2		2	1	1	1	4	1	1	2	3	1		1	1			
MONOCYTIC LEUKEMIA	206														1								
OTHER AND UNSPECIFIED LEUKEMIA	207-208	1		1	1	1		2		1	1			2	1	3	1		1				
TOTAL MALIGNANT NEOPLASMS	140-208	12	16	31	23	51	24	97	58	119	82	136	85	148	73	112	66	91	55	54	51		

TABLE 37

HAWAII RESIDENT DEATHS OCCURRING OUTSIDE THE STATE BY RACE, AGE, AND SEX*
1985

AGE	TOTAL		CAUCASIAN		JAPANESE		CHINESE		FILIPINO		HAWAIIAN PT HAW'N		KOREAN		BLACK		OTHER PAC. IS.		OTHER & UNK	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
TOTAL	40	34	27	13	3	8	2	6	2	1	3	3			1		1	1	1	2
UNDER 1	4	1	4																	1
1 - 19	1	1	1			1														
20 - 24	3		3																	
25 - 34	3		3																	
35 - 44	2	2	2	1								1								
45 - 54	5	3	3	2						1	1						1			
55 - 64	9	10	5	3	1	3	2	1	1			2						1		
65 - 74	6	6	3	1	1	2		2	1		1									1
75 - 84	6	5	2	3	1	1		1			1				1				1	
85 & OVER	1	6	1	3		1		2												

*INCLUDES DEATHS OCCURRING IN THE UNITED STATES, GUAM, AND CANADA.

TABLE 38

TOTAL RECORDED DEATHS BY ISLAND OF OCCURRENCE, BY METHOD OF DISPOSITION AND AUTOPSY PERFORMED
STATE OF HAWAII 1985

ISLAND OF OCCURRENCE	METHOD OF DISPOSITION								AUTOPSY PERFORMED						PRE SUMPTIVE DEATHS
	TOTAL	BURIAL	CREMATION	REMOVAL	ENTOMBMENT	EDUC. PURPOSE	OTHER	UNK.	PRIV. PHY. TOTAL	PRIV. PHY. YES	MED.EX./COR.PHY. TOTAL	MED.EX./COR.PHY. YES	OTHER TOTAL	OTHER YES	
TOTAL	6116	2610	2886	586	27			7	5117	425	989	720	2		8
HAWAII	671	317	305	42	4			3	512	24	156	151			3
OAHU	4708	1956	2258	467	23			4	4053	376	649	403	1		5
KALAWAO COUNTY															
KAUAI	263	122	117	24					224	21	39	36			
NIIHAU															
LANAI	12	7	4	1					11		1	1			
MAUI	437	192	195	50					303	4	133	120	1		
MOLOKAI (EXCL OF KALAWAO)	25	16	7	2					14		11	9			
UNKNOWN															

FIGURE 3

INFANT DEATHS IN HAWAII 1900 - 1985

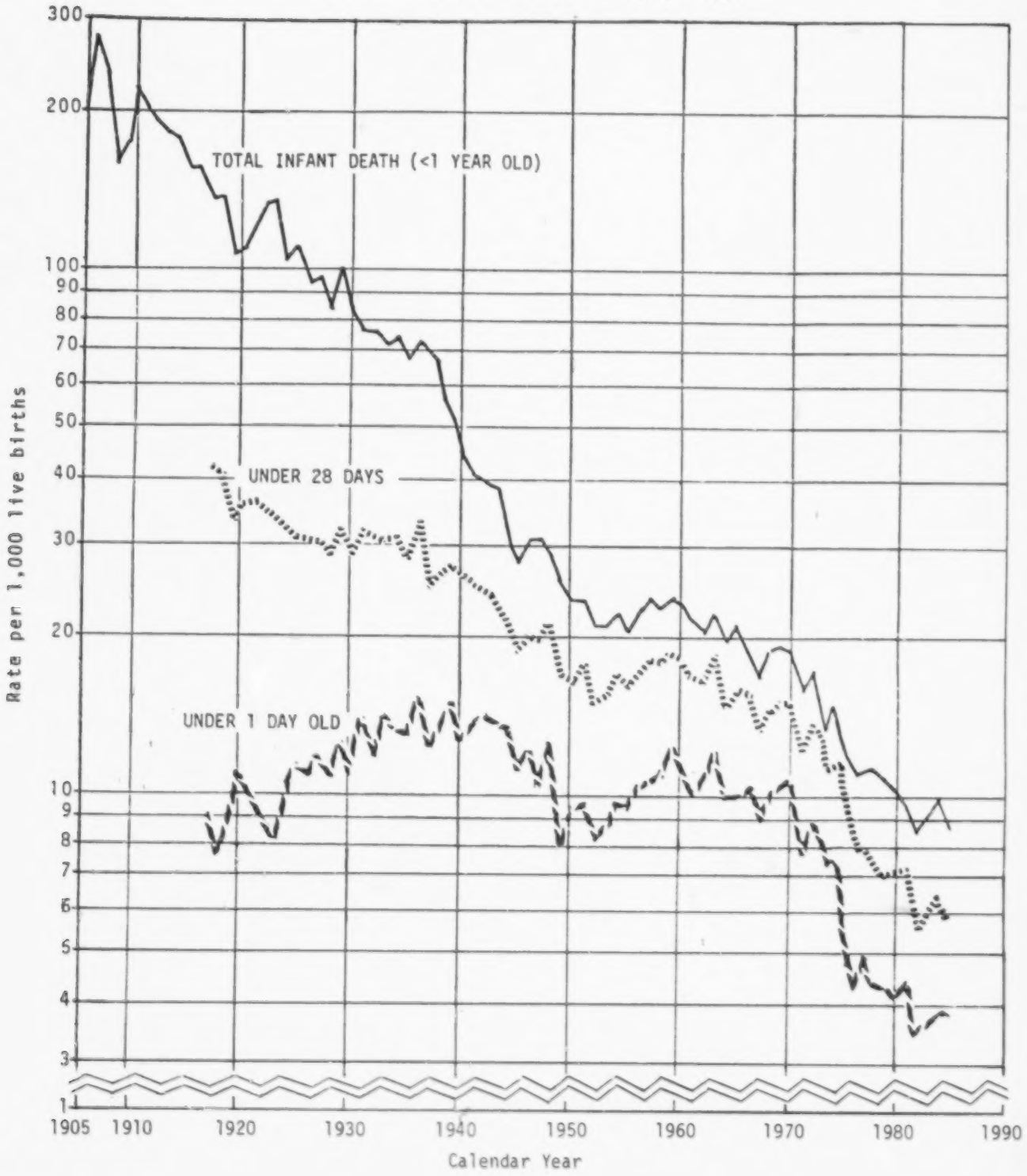


TABLE 39

INFANT DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE BY RACE OF CHILD
STATE OF HAWAII, 1985

GEOGRAPHIC AREA		TOTAL BY PLACE OF OCCURRENCE		TOTAL BY PLACE OF RESIDENCE		PERINATAL MORTALITY		RACE OF CHILD												
		NO.	RATE a/	NO.	RATE a/	NO.	RATE b/	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNKN
TOTAL RECORDED		167	9.1	167	9.1	241	13.0	96	7	52	5	24	15		6	2	19			8	
STATE OF HAWAII	NUMBER	167	9.1	159	8.7	236	12.8	62	2	57	5	24	15		6	2	18			3	
	RATE b/	9.1		8.7				7.3	33.3	9.5	7.2	8.6	6.4		19.0	4.1	20.1			6.6	
COUNTY OF HAWAII		9	4.9	11	5.9	20	10.6	1		6		3	1								
CITY OF HILO		7	6.1	5	9.0	7	12.5			2		2	1								
BALANCE OF CTY		2	3.0	6	4.6	13	9.8	1		4		1									
COUNTY OF HONOLULU		146	10.2	129	9.2	185	12.9	28	2	36	4	18	10		6	2	16			3	
CITY OF HONOLULU		126	9.7	44	7.8	67	11.9	6	1	11	3	5	5		5	2	4			2	
BALANCE OF CTY		20	14.4	85	10.1	116	13.7	22	1	27	1	13	5		1		14			1	
COUNTY OF KALAWAO																					
COUNTY OF KAUAI		4	5.5	7	9.0	13	16.5	3		2	1	1									
ISLAND OF KAUAI		4	5.5	7	9.1	13	16.7	3		2	1	1									
ISLAND OF NIIHAU																					
COUNTY OF MAUI		6	5.5	12	7.5	20	12.4			6		2	4								
ISLAND OF LANAI																					
ISLAND OF MAUI		6	6.3	9	6.4	20	14.0			3		2	4								
ISLAND OF MOLOKAI (EXCL. KALAWAO)		2	44.4	3	20.4					1											
NON-RESIDENT				8	129.0	5	75.8	2									1			5	
UNKNOWN																					

a/ NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS
b/ RESIDENT INFANT DEATHS UNDER 1 WEEK OF AGE AND FETAL DEATHS OF 20 WEEKS OR MORE GESTATION DIVIDED BY THE SUM OF TOTAL RESIDENT LIVE BIRTHS PLUS RESIDENT FETAL DEATHS OF 20 WEEKS OR MORE GESTATION

TABLE 40

RESIDENT INFANT DEATHS BY AGE AND RACE OF MOTHER
STATE OF HAWAII, 1985

AGE OF MOTHER		ALL RACES		RACE OF MOTHER														
		NO.	RATE*	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNKN
ALL AGES	NUMBER	159	8.7	33	3	37	3	29	16	3	7	2	18	1		4	5
	RATE*	8.7		5.7	20.0	9.5	4.2	9.9	6.5	26.1	17.5	4.2	24.4	4.7		9.3	
UNDER 15		2	250.0	1				1									
15 - 17		7	13.8			3		3								1	
18 - 19		21	16.4	5		8		4					2	1		1	
20 - 24		47	8.4	11	2	16	1	6	1	1		2	6			1	
25 - 29		40	7.2	8		6		9	5	2	2		8				
30 - 34		23	6.0	5	1	2	1	4	5		5						
35 - 39		13	9.9	3		2		2	5							1	
40 - 44		1	5.8				1										
45 & OVER																	
UNKNOWN		5															5

* NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS

TABLE 41

RESIDENT INFANT DEATHS BY RACE OF MOTHER AND MONTH OF FIRST PRENATAL VISIT
STATE OF HAWAII, 1985

RACE OF MOTHER		NO.	RATE*	MONTH OF FIRST PRENATAL VISIT										
				1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	9TH	NONE	UNKNOWN
ALL RACES	NUMBER	159	8.7	21	43	27	21	15	9	1	2	1	3	16
	RATE*	8.7		7.5	6.4	6.5	12.0	13.5	13.5	2.5	6.7	10.8	25.1	
CAUCASIAN		33	5.7	8	8	5	4	2	2		1			5
HAWAIIAN		3	20.0			2			1					
PART HAWAIIAN		37	9.5	1	3	7	7	4	4	1	1		1	3
CHINESE		3	4.2	1			1							1
FILIPINO		20	9.9	5	8	6	4	5	1					
JAPANESE		16	6.5	1	8	1	1	2				1		2
PUERTO RICAN		3	26.1	2	1									
KOREAN		7	17.5	1	5		1							
SAMOAN		2	4.2		1	1								
NEGRO		16	24.4	4	2	4	3	1					2	
PORTUGUESE		1	4.7		1									
VIETNAMESE														
OTHER RACES		4	9.3		1	1		1	1					
UNKNOWN		5												5

* NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS

TABLE 42

RESIDENT INFANT MORTALITY BY RACE OF CHILD AND AGE, LOW BIRTH WEIGHT INFANT DEATHS
STATE OF HAWAII, 1985

RACE OF CHILD	NUMBER OF INFANT DEATHS AGE AT DEATH (DAYS)					INFANT DEATH RATE a/					LOW BIRTH WEIGHT INFANTS WHO DIED b/	
	TOTAL	UNDER 1 DAY	1-6	7-27	28 DAYS TO 11 MOS	TOTAL	UNDER 1 DAY	UNDER 1 WEEK	UNDER 28 DAYS	28 DAYS TO 11 MOS	NO.	RATE c/
ALL RACES	159	69	19	19	52	8.7	3.8	4.8	5.4	2.8	94	90.2
CAUCASIAN	32	17	3	7	5	7.3	3.9	4.6	6.2	1.1	20	108.7
HAWAIIAN	2	1			1	33.3	1.7	1.7	1.7	1.7	2	400.0
PART HAWAIIAN	52	19	4	5	24	9.5	3.5	4.2	5.1	4.4	25	79.4
CHINESE	5	2	1		2	7.2	2.9	4.3	4.3	2.9	3	85.7
FILIPINO	24	9	3	4	8	8.6	3.2	4.3	5.7	2.9	14	51.5
JAPANESE	15	5	4		6	6.4	2.1	3.9	3.9	2.6	10	72.5
PUERTO RICAN												
KOREAN	6	3	2	1		19.0	9.5	15.6	19.0		4	285.7
SAMOAN	2	1			1	4.1	2.1	2.1	2.1	2.1	2	200.0
NEGRO	18	10	1	2	5	20.1	11.1	12.3	14.5	5.6	14	209.0
PORTUGUESE												
VIETNAMESE												
OTHER RACES	3	2	1			6.6	4.4	6.6	6.6		2	142.9
UNKNOWN												

a/ NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS
b/ INFANTS OF LESS THAN 2500 GRAMS (5 LBS. 8 OZ.) ARE CONSIDERED LOW BIRTH WEIGHT
c/ NUMBER OF DEATHS PER 1,000 LOW BIRTH WEIGHT LIVE BIRTHS

TABLE 43
RESIDENT INFANT MORTALITY BY SELECTED CAUSES BY BIRTH WEIGHT, SEX AND AGE, NEONATAL DEATHS
STATE OF HAWAII, 1985

CAUSE OF DEATH[a]	TOTAL			BIRTH WEIGHT			SEX			AGE AT DEATH				NEONATAL DEATH[c]	
	NO.	RATE[b]	PER CENT	2500 GMS UNDER	OVER 2500 GMS	UNK	MALE	FEMALE	UNK	UNDER 1 DAY	1-6 DAYS	7-27 DAYS	28 DAYS TO 11 MOS	NO.	RATE[b]
ALL CAUSES	159	8.7	100.0	94	53	12	85	74		69	19	19	52	107	5.8
INTESTINAL INFECTIVE DISEASES (001-009)															
OTHER INFECTIVE DISEASES (010-139)	1	0.1	.6			1		1		1				1	0.1
INFECTIONS OF NEWBORN (771)	1	0.1	.6	1				1				1		1	0.1
MENINGITIS (320-322)	2	0.1	1.3	1	1		2						2		
PNEUMONIA (480-486,7700)	3	0.2	1.9	1	2		1	2				1	2	1	0.1
CONGENITAL ANOMALIES OF CIRCULATORY SYST (745-747)	19	1.0	11.9	3	16		11	8		1	5	4	9	10	0.5
OTHER CONG ANOMAL (740-759)	23	1.3	14.5	15	6	2	11	12		13	6		4	19	1.0
MATERNAL CONDITIONS UNRELATED TO PREGNANCY (760)															
COMPLICATIONS OF PREGNANCY (761)	1	0.1	.6	1				1		1				1	0.1
COMPLICATIONS OF PLACENTA CORD & MEMBRANE (762)	7	0.4	4.4	6	1		4	3		5		2		7	0.4
OTHER COMPLICATIONS OF LABOR AND DELIVERY (763)															
BIRTH INJURY (767)	2	0.1	1.3		2		2			1			1	1	0.1
HEMOLYTIC DISEASE OF NEWBORN (773)															
RESPIRATORY DISTRESS SYNDROME (769)	15	0.8	9.4	14	1		6	9		6	3	5	1	14	0.8
ASPHYXIA & HYPOXIA (768)															
IMMATURITY (765)	35	1.9	22.0	31		4	17	18		33	1	1		35	1.9
OTHER PERINATAL (760-779)	16	0.9	10.1	13	1	2	11	5		5	3	3	5	11	0.6
SUDDEN INFANT DEATH SYNDROME (7980)	22	1.2	13.8	4	17	1	12	10		1	1	2	18	4	0.2
ACCIDENTS (800-949)	1	0.1	.6		1			1					1		
OTHER EXTERNAL CONDITIONS (950-959)															
ALL OTHER CONDITIONS-RESIDUAL	11	0.6	6.9	4	5	2	8	3		2			9	2	0.1

[a] 9TH ICD
[b] NUMBER OF INFANT DEATHS PER 1,000 LIVE BIRTHS
[c] DEATHS UNDER 28 DAYS OLD

TABLE 44
STANDARD FETAL DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE OF MOTHER AND GESTATION PERIOD
STATE OF HAWAII, 1985

GEOGRAPHIC AREA		TOTAL BY PLACE OF OCCURRENCE		TOTAL BY PLACE OF RESIDENCE			GESTATION PERIOD IN WEEKS										
		NO.	RATIO[a]	NO.	RATIO[a]	RATE[b]	UNDER 12	12	13	14	15	16-19	20-27	28-35	36-39	40 & OVER	UNKN
TOTAL RECORDED		1,530	83.5	1,530	83.5	77.0	1,013	116	48	54	31	87	79	39	16	18	29
STATE OF HAWAII	NUMBER	1,530	83.5	1,473	80.6	74.6	970	114	44	52	30	86	76	38	16	18	29
	PERCENT			100.0			65.9	7.7	3.0	3.5	2.0	5.8	5.2	2.6	1.1	1.2	2.0
COUNTY OF HAWAII		166	91.1	168	89.7	82.3	123	11	2	7	1	8	4	3	3	5	1
CITY OF HILO		155	134.4	73	131.3	116.1	59	4	1	4		1	2	2			
BALANCE OF COUNTY		11	16.4	95	72.1	67.3	64	7	1	3	1	7	2	1	3	5	1
COUNTY OF HONOLULU		1,094	76.3	1,046	74.6	69.4	655	86	35	38	24	72	58	31	12	11	24
CITY OF HONOLULU		953	73.6	465	82.9	76.5	314	31	12	17	10	32	22	10	6	4	7
BALANCE OF COUNTY		141	101.7	581	69.1	64.6	341	55	23	21	14	40	36	21	6	7	17
COUNTY OF KALAWAO																	
COUNTY OF KAUAI		109	148.7	108	138.8	121.9	84	7	2	2	1	3	6	1		1	1
ISLAND OF KAUAI		109	148.9	108	140.1	122.9	84	7	2	2	1	3	6	1		1	1
ISLAND OF NIIHAU																	
COUNTY OF MAUI		161	111.5	151	94.7	86.5	108	10	5	5	4	3	8	3	1	1	3
ISLAND OF LANAI				1	32.3	31.3		1									
ISLAND OF MAUI		161	116.4	145	102.4	92.9	106	8	5	5	2	3	8	3	1	1	3
ISLAND OF MOLOKAI				5	34.0	32.9	2	1			2						
NON-RESIDENT				57	919.4	279.4	43	2	4	2	1	1	3	1			
UNKNOWN																	

[a] NUMBER OF FETAL DEATHS PER 1,000 LIVE BIRTHS
[b] NUMBER OF FETAL DEATHS PER 1,000 DELIVERIES (LIVE BIRTHS AND STANDARD FETAL DEATHS)

TABLE 45

STANDARD FETAL DEATHS BY PLACE OF OCCURRENCE REALLOCATED TO USUAL RESIDENCE OF MOTHER BY RACE
STATE OF HAWAII, 1985

GEOGRAPHIC AREA	TOTAL BY PLACE OF OCCURRENCE		TOTAL BY PLACE OF RESIDENCE			RACE OF FETUS												
	NO.	RATIO a/	NO.	RATIO a/	RATE b/	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGESE	VIETNAMESE	OTHER	UNKN
TOTAL RECORDED	1530	83.5	1530	83.5	77.0	508	28	303	42	221	204	8	30	19	47	14	7	17	82
STATE OF HAWAII NUMBER	1530	83.5	1473	80.6	74.6	464	28	303	41	217	200	6	30	19	46	14	7	16	80
STATE OF HAWAII RATIO a/	83.5		80.6			105.9	466.7	55.2	59.0	78.0	85.9	56.3	94.9	39.0	51.3	21.4	112.9	34.9	
STATE OF HAWAII RATE b/	77.0		74.6			95.7	318.2	52.3	55.7	72.3	79.1	53.3	86.7	37.5	48.8	75.3	101.4	33.8	
COUNTY OF HAWAII	166	91.1	169	89.7	82.3	31	2	74	3	25	19	3			3	4		3	1
CITY OF HILO	155	134.4	73	131.3	116.1	6		44	1	7	12	2				1			
BALANCE OF COUNTY	11	16.4	95	72.1	67.3	25	2	30	2	18	7	1			3	3		3	1
COUNTY OF HONOLULU	1094	76.3	1046	74.6	69.4	338	19	166	33	155	144	5	29	18	42	6	7	8	76
CITY OF HONOLULU	953	73.6	465	82.9	76.5	133	3	61	27	74	68	1	21	10	15	4	7	7	34
BALANCE OF COUNTY	141	101.7	581	69.1	64.6	205	16	105	6	81	76	4	8	8	27	2		1	42
COUNTY OF KALAWAO																			
COUNTY OF KAUAI	109	148.7	108	138.8	121.9	29	4	28	2	27	13		1			2		1	1
ISLAND OF KAUAI	109	148.9	108	140.1	122.9	29	4	28	2	27	13		1			2		1	1
ISLAND OF NIIHAU																			
COUNTY OF MAUI	161	111.5	151	94.7	86.5	66	3	35	3	10	24			1	1	2		4	2
ISLAND OF LANAI			1	32.3	31.3	1													
ISLAND OF MAUI	161	116.4	145	102.4	92.9	63	3	33	3	9	24			1	1	2		4	2
ISLAND OF MOLOKAI			5	34.0	32.9	2		2		1									
NON-RESIDENT			57	919.4	279.4	44			1	4	4				1			1	2
UNKNOWN																			

a/NUMBER OF FETAL DEATHS PER 1,000 LIVE BIRTHS
b/NUMBER OF FETAL DEATHS PER 1,000 DELIVERIES (LIVE BIRTHS AND STANDARD FETAL DEATHS)

TABLE 46

STANDARD FETAL DEATHS BY CAUSE AND GESTATION PERIOD
STATE OF HAWAII, 1985

CAUSE	CODE*	TOTAL		GESTATION PERIOD IN WEEKS										
		NUMBER	PERCENT	UNDER 12	12	13	14	15	16-19	20-27	28-35	36-39	40 & OVER	UNKN
ALL CAUSES	ALL	1,530	100.0	1,013	116	48	54	31	87	79	39	16	18	29
SPONTANEOUS ABORTION	7618	652	42.6	468	53	25	31	17	34	9				15
ALL OTHER ABORTIONS	7796	250	16.3	161	32	10	12	9	18	6				2
CONGENITAL ANOMALIES	740-759	13	.8							4	6	1	2	
CHRONIC CIRCULATORY, RESPIRATORY, AND GENITOURINARY DISEASES IN THE MOTHER	7600, 7601, 7603	7	.5						1	1	4	1		
MATERNAL CONDITIONS UNRELATED TO PREGNANCY	7602, 7604-7609	11	.7	6					3		2			
COMPLICATIONS OF PREGNANCY AND CHILDBIRTH	7610-7617, 7619	212	13.9	179	3	3		1	5	9	1			11
DIFFICULT LABOR WITH OR WITHOUT MENTION OF BIRTH INJURY	763													
COMPLICATIONS OF PLACENTA, CORD AND MEMBRANES	762	65	4.2	13	4		2		7	12	8	10	8	1
BIRTH INJURY WITHOUT MENTION OF CAUSE	767													
HEMOLYTIC DISEASE OF NEWBORN	773													
OTHER CONDITIONS OF FETUS	764-766, 768-770	2	.1								2			
UNKNOWN	7799	313	20.5	185	24	10	8	4	19	38	14	4	7	
ALL OTHER CAUSES	RESIDUAL	5	.3	1			1				2		1	

*9TH ICD

TABLE 47

STANDARD FETAL DEATHS BY AGE OF MOTHER AND GESTATION PERIOD
STATE OF HAWAII, 1985

AGE OF MOTHER IN YEARS	TOTAL			GESTATION PERIOD IN WEEKS: NUMBER											GESTATION PERIOD IN WEEKS: PERCENT						
	NO.	RATIO*	PER-CENT	<12	12	13	14	15	16 TO 19	20 TO 27	28 TO 35	36 TO 39	40 & OVER	UNKN	UNDER 12	UNDER 20	UNDER 28	UNDER 36	36 TO 39	40 & OVER	UNKN
ALL AGES	1,530	83.8	100.0	1,013	116	48	54	31	87	79	39	16	18	29	66.2	88.2	93.3	95.9	1.0	1.2	1.9
UNDER 15	1	125.0	.1											1							100.0
15 - 17	46	90.6	3.0	23	6		2	1	5	8				1	50.0	80.4	97.8	97.8			2.2
18 - 19	79	61.9	5.2	56	8	2	3		2	2	1	3	1	1	70.9	89.9	92.4	93.7	3.8	1.3	1.3
20 - 24	376	67.1	24.6	235	21	16	8	11	34	23	12	3	6	7	62.5	86.4	92.6	95.7	.8	1.6	1.9
25 - 29	417	75.4	27.3	278	39	12	16	10	16	18	12	5	6	5	66.7	89.0	93.3	96.2	1.2	1.4	1.2
30 - 34	356	92.5	23.3	253	22	12	13	3	17	14	7	2	4	9	71.1	89.9	93.8	95.8	.6	1.1	2.5
35 - 39	200	153.0	13.1	134	15	3	10	6	9	11	5	2		5	67.0	86.5	94.0	96.5	1.0		2.5
40 - 44	46	269.0	3.0	28	4	3	2		4	3	1		1		60.9	89.1	95.7	97.8		2.2	
45 - 49	7	636.4	.5	5							1	1			71.4	71.4	71.4	85.7	14.3		
50 & OVER																					
UNKNOWN	2		.1	1	1										50.0	100.0	100.0	100.0			

*NUMBER OF FETAL DEATHS PER 1,000 LIVE BIRTHS

TABLE 48

STANDARD FETAL DEATHS BY RACE OF MOTHER AND AGE OF MOTHER
STATE OF HAWAII, 1985

ALL RACES		NO.	PER CENT	RACE OF MOTHER: CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERRCAN	KOREAN	SAMOAN	NEGRO	PORTGESE	VIETMESE	OTHER	UNKN
	NUMBER	1530	100.0	512	31	259	45	235	203	10	39	20	40	18	7	22	89
	PERCENT	100.0		33.5	2.0	16.9	2.9	15.4	13.3	.7	2.5	1.3	2.6	1.2	.5	1.4	5.8
UNDER 15		1	.1			1											
15 - 17		46	3.0	13	3	7	1	10	1	1	1	1	1				7
18 - 19		79	5.2	26	1	20	1	10	3		1	2	2	1	1	5	6
20 - 24		376	24.6	117	7	90	11	55	29	5	6	4	14	3		7	28
25 - 29		417	27.3	126	11	70	10	78	54	2	17	5	8	8	1	4	23
30 - 34		356	23.3	136	5	45	13	42	70	2	6	4	11	2	1	3	16
35 - 39		200	13.1	75	3	21	7	29	37		7	2	3	2	4	3	7
40 - 44		46	3.3	17		3	2	9	9		1	2	1	1			1
45 - 49		7	.5	2	1	1		1						1			1
50 & OVER																	
UNKNOWN		2	.1			1		1									

TABLE 49

ELECTIVE ABORTIONS BY RACE OF MOTHER AND AGE OF MOTHER
STATE OF HAWAII, 1985

MOTHERS AGE IN YEARS		NO.	PERCENT	ABORTIONS PER 1000 LIVE BIRTHS	RACE OF MOTHER													
					CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	NEGRO	SAMOAN	VIETNAMESE	PORTUGUESE	OTHER RACES	UNKNOWN
	NUMBER	5,670		310.4	1762	123	817	230	647	869	22	211	120	92	32	43	107	395
	PERCENT		100.0		31.1	2.2	14.4	4.1	14.9	15.3	.4	3.7	2.1	1.6	.6	.8	1.9	7.0
UNDER 15		40	.7	5,000.0	5		13		6	4			2	2			1	7
15 - 17		466	8.2	917.3	117	18	93	7	78	95	3	6	8	3		2	10	36
18 - 19		705	12.4	552.1	171	21	126	31	110	124	3	19	8	14	4	8	15	51
20 - 24		1,918	33.8	342.5	580	44	337	89	290	260	6	57	53	35	6	13	37	131
25 - 29		1,266	22.3	228.8	447	26	145	44	165	157	6	59	33	24	5	14	26	95
30 - 34		752	13.3	195.3	283	8	64	26	90	135	3	48	13	8	8	2	13	51
35 - 39		402	7.1	307.6	126	6	29	26	62	80		36	2	6	7	3	3	16
40 - 44		111	2.0	649.1	30		9	7	24	22		6	1		1	1	2	8
45 - 49		5	.1	454.5			1		1	2					1			
50 & OVER																		
UNKNOWN		5	.1		3				1		1							

TABLE 50

ELECTIVE ABORTIONS BY AGE OF MOTHER AND LENGTH OF GESTATION PERIOD
STATE OF HAWAII, 1985

AGE OF MOTHER	TOTAL	GESTATION PERIOD IN WEEKS																	
		UNDER 6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 & OVER	UNKN
ALL AGES	5,670	137	872	704	1,329	634	756	297	342	138	118	69	72	52	76	44	11	14	5
UNDER 15	40		2	4	7	5	7	2	3	1	2		6					1	
15 - 17	466	3	63	45	91	60	65	29	36	14	8	10	11	5	9	10	3	3	1
18 - 19	705	9	87	74	156	81	106	40	64	11	21	18	8	9	13	6	1	1	
20 - 24	1,918	40	279	237	441	227	235	114	111	56	52	27	24	23	30	13	3	5	1
25 - 29	1,266	33	225	148	321	130	163	64	69	31	23	8	15	7	15	7	2	4	1
30 - 34	752	29	123	113	178	86	120	29	34	11	5	3	2	4	6	6	2		1
35 - 39	402	14	75	64	104	38	48	12	19	9	3	2	5	4	2	2			1
40 - 44	111	7	17	18	29	6	12	6	5	5	3	1	1		1				
45 - 49	5				2	1		1			1								
50 & OVER																			
UNKNOWN	5	2	1	1					1										

TABLE 51

ELECTIVE ABORTIONS BY LEGITIMACY AND RACE OF MOTHER
STATE OF HAWAII, 1985

LEGITIMACY STATUS	TOTAL	RACE OF MOTHER													
		CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	NEGRO	SAMOAN	PORTUGESE	VIETNAMESE	OTHER RACES	UNKNOWN
TOTAL	5,670	1,762	123	817	230	847	869	22	211	120	92	32	43	107	395
LEGITIMATE	1,236	296	17	168	64	271	187	5	65	14	21	11	11	29	77
ILLEGITIMATE	4,381	1,441	106	647	165	571	673	16	145	101	70	21	32	75	318
UNKNOWN	53	25		2	1	5	9	1	1	5	1			3	

TABLE 52

ELECTIVE ABORTIONS BY LEGITIMACY STATUS AND AGE OF MOTHER
STATE OF HAWAII, 1985

LEGITIMACY STATUS	TOTAL	AGE OF MOTHER IN YEARS										
		UNDER 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50 & OVER	UNKNOWN
TOTAL	5,670	40	466	705	1,918	1,266	752	402	111	5		5
LEGITIMATE	1,236		8	37	297	388	269	192	59	5		1
ILLEGITIMATE	4,381	40	454	659	1,603	885	479	206	51			4
UNKNOWN	53		4	9	18	13	4	4	1			

TABLE 53

ELECTIVE ABORTIONS BY TYPE OF PROCEDURE AND GESTATION PERIOD
STATE OF HAWAII, 1985

TYPE OF PROCEDURE	TOTAL	GESTATION PERIOD IN WEEKS														
		UNDER 6	6	7	8	9	10	11	12	13	14	15	16	17-19	20 & OVER	UNKN
TOTAL	5,670	137	872	704	1,329	634	756	297	342	138	118	69	72	172	25	5
SUCTION CURETTAGE	5,438	127	842	674	1,283	624	749	294	342	137	112	63	53	121	12	5
SHARP D & C	12		1	2	3	3	1				1	1				
AMNIOTIC FLUID EXCHANGE																
HYSTEROTOMY	1						1									
HYSTERECTOMY	2		2													
PROSTAGLANDIN	40				1						4	4	11	16	4	
OTHER	177	10	27	28	42	7	5	3		1	1	1	8	35	9	
NOT STATED																
UNKNOWN																

TABLE 54
ELECTIVE ABORTIONS BY COUNTY OF RESIDENCE AND COUNTY OF OCCURRENCE
STATE OF HAWAII, 1985

COUNTY OF RESIDENCE		NO.	PER-CENT	ABORTIONS PER 1,000 LIVE BIRTHS	COUNTY OF OCCURRENCE															
					TOTAL	COUNTY OF HAWAII			COUNTY OF HONOLULU			KALAWAO CNTY	COUNTY OF KAUAI			COUNTY OF MAUI				NON RES	UNK
						TOT	HILO CITY	BAL	TOT	HON CITY	BAL		TOT	KAUAI ISL	NIIHAU ISL	TOT	MAUI ISL	LANAI ISL	MOLOKAI ISL		
TOTAL RECORDED	NUMBER	5670	100.0	309.3	5670	282	224	58	4937	4070	867		153	153		298	293		5		
	PERCENT	100.0			100.0	5.0	4.0	1.0	87.1	71.8	15.3		2.7	2.7		5.3	5.2		.1		
STATE OF HAWAII		5595	98.7	306.3	5595	281	224	57	4864	4020	844		153	153		297	292		5		
COUNTY OF HAWAII		309	5.4	165.0	309	281	224	57	28	27	1										
CITY OF HILO		145	2.6	260.8	145	134	131	3	11	11											
BALANCE OF COUNTY		164	2.9	124.5	164	147	93	54	17	16	1										
COUNTY OF HONOLULU		4657	82.1	332.1	4657				4656	3846	810					1	1				
CITY OF HONOLULU		2728	48.1	486.3	2728				2727	2470	257					1	1				
BALANCE OF COUNTY		1929	34.0	229.3	1929				1929	1376	553										
COUNTY OF KALAWAO																					
COUNTY OF KAUAI		227	4.0	291.8	227				74	51	23		153	153							
ISLAND OF KAUAI		227	4.0	294.4	227				74	51	23		153	153							
ISLAND OF NIIHAU																					
COUNTY OF MAUI		402	7.1	252.2	402				106	96	10					296	291		5		
ISLAND OF MAUI		380	6.7	268.4	380				92	85	7					288	288				
ISLAND OF LANAI		4	.1	129.0	4				2	1	1					2	2				
ISLAND OF MOLOKAI		18	.3	122.4	18				12	10	2					6	1		5		
NON-RESIDENT		73	1.3		73	1		1	71	49	22					1	1				
UNKNOWN		2			2				2	1	1										

TABLE 55
MARRIAGES BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1985

PLACE OF OCCURR	TOTAL	PERCENT	RATE*	MONTH OF OCCURRENCE												
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	UNK
TOTAL	15,421	100.0	14.6	989	1,179	1,214	1,219	1,341	1,413	1,332	1,574	1,255	1,175	1,302	1,428	
PERCENT				6.4	7.6	7.9	7.9	8.7	9.2	8.6	10.2	8.1	7.6	8.4	9.3	
STATE OF HAWAII	15,416	100.0	14.6	989	1,179	1,213	1,218	1,340	1,413	1,332	1,573	1,255	1,175	1,301	1,428	
COUNTY OF HAWAII	1,226	8.0	11.2	70	97	102	86	87	125	85	146	77	87	127	133	
CITY OF HILO	468	3.0	12.6	25	40	31	36	34	57	37	67	29	26	43	43	
BAL. OF COUNTY	758	4.9	10.5	45	57	71	50	53	68	52	79	48	61	84	90	
COUNTY OF HONOLUL	9,953	64.5	12.2	653	752	778	782	830	926	903	1,031	796	752	836	914	
CITY OF HONO.	7,364	47.8	19.1	485	542	590	602	599	658	673	756	592	571	624	672	
BAL. OF COUNTY	2,589	16.8	6.0	168	210	188	180	231	269	230	275	204	181	212	242	
COUNTY OF KALAWAO	2			1						1						
COUNTY OF KAUAI	1,947	12.6	43.5	101	138	156	157	193	169	144	192	185	158	174	180	
ISL OF KAUAI	1,947	12.6	43.7	101	138	156	157	193	169	144	192	185	158	174	180	
ISL OF NIIHAU																
COUNTY OF MAUI	2,288	14.8	26.8	164	192	177	193	230	193	195	204	197	178	164	201	
ISL OF LANAI	14	.1	6.2			1	2	1		3	2	1	1		3	
ISL OF MAUI	2,205	14.3	28.8	162	184	168	187	225	186	188	195	189	171	159	191	
ISL OF MOLOKAI	69	.4	10.5	2	8	8	4	4	7	4	7	7	6	5	7	
UNKNOWN	5					1	1	1			1			1		

*RATE PER 1,000 POPULATION

TABLE 56

MARRIAGES BY AGE OF GROOM AND AGE OF BRIDE
STATE OF HAWAII, 1985

AGE OF GROOM	TOT	PERCENT	AGE OF BRIDE 15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & >	UNK
ALL AGES	15,421	100.0	169	986	4210	4184	2620	1489	806	408	221	133	103	53	25	14	
PERCENT			1.1	6.4	27.3	27.1	17.0	9.7	5.2	2.6	1.4	.9	.7	.3	.2	.1	
15 - 17	23	.1	5	14	3	1											
18 - 19	400	2.6	58	206	104	14	9	5									
20 - 24	3,421	22.2	86	603	1994	524	153	47	10	2	1					1	
25 - 29	3,925	25.5	13	106	1401	1723	490	138	40	11	3						
30 - 34	2,741	17.8	5	37	445	1117	779	273	57	19	9						
35 - 39	1,959	12.7	2	12	164	516	658	416	151	33	5	1			1		
40 - 44	1,163	7.5		5	59	184	325	321	204	49	12	3	1				
45 - 49	645	4.2		1	16	57	124	156	148	95	37	8	3				
50 - 54	426	2.8		2	14	31	54	73	98	84	52	12	7	1			
55 - 59	297	1.9			1	11	14	37	68	54	47	42	18	4	1		
60 - 64	183	1.2			2	5	6	17	18	37	29	36	18	13	1	1	
65 - 69	130	.8				1	6	2	9	17	20	22	33	12	8		
70 - 74	61	.4					3	2	3	5	4	9	10	13	7	5	
75 & >	47	.3			2			2	2	2	2		13	10	7	7	
UNKNOWN																	

MEDIAN AGE OF GROOM WITH KNOWN AGES: 29.9

MEDIAN AGE OF BRIDE WITH KNOWN AGES: 27.8

TABLE 56A

RESIDENT MARRIAGES BY AGE OF GROOM AND AGE OF BRIDE
STATE OF HAWAII, 1985

AGE OF GROOM	TOTAL	AGE OF BRIDE 15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & >
TOTAL	9893	166	908	3238	2592	1450	769	369	182	89	55	47	16	6	6
15-17	23	5	14	3	1										
18-19	385	56	199	101	14	8	5								
20-24	2927	84	562	1673	429	126	41	9	2	1					
25-29	2655	13	87	1009	1160	302	100	25	10	3	1				
30-34	1015	4	29	295	655	420	150	36	13	7	1				
35-39	995	2	10	102	250	326	209	73	25	11	14	1			
40-44	533	1	4	37	89	162	130	78	26	6	1	1			
45-49	252	1	1	5	20	53	69	63	29	12	3	1			
50-54	174	1	2	9	16	27	34	35	27	14	7	3	1		
55-59	138	1	1	1	8	8	14	32	23	22	22	8	1	1	
60-64	90	1	1	2	3	4	12	11	17	13	12	8	1		
65-69	52	1	1	1	1	6	2	4	10	7	7	1	1	3	
70-74	20	1	1	1	1	2	1	1	3	2	2	6	3	2	
75 & >	24	1	1	2	1	1	2	2	1	1	1	1	3	2	2

TABLE 57

MARRIAGES BY PREVIOUS MARITAL STATUS OF GROOM AND OF BRIDE BY AGE
STATE OF HAWAII, 1985

AGE IN YEARS		GROOM							BRIDE						
		TOTAL	PERCENT	NEVER MARRIED	WIDOWED	DIVORCED	ANNUL-MENT	UNKNOWN	TOTAL	PERCENT	NEVER MARRIED	WIDOWED	DIVORCED	ANNUL-MENT	UNKNOWN
TOTAL	NUMBER	15,421	100.0	9,366	414	5,607	34		15,421	100.0	9,394	425	5,561	40	1
	PERCENT	100.0	...	60.7	2.7	36.4	.2		100.0	...	60.9	2.8	36.1	.3	
15 - 17		23	.1	23					169	1.1	167		2		
18 - 19		400	2.6	399		1			986	6.4	967		19		
20 - 24		3,421	22.2	3,240	2	179			4,210	27.3	3,748	6	454	2	
25 - 29		3,925	25.5	3,202	8	705	10		4,184	27.1	2,925	30	1,216	13	
30 - 34		2,741	17.8	1,607	9	1,113	12		2,620	17.0	1,125	44	1,440	11	
35 - 39		1,959	12.7	583	37	1,333	6		1,489	9.7	311	39	1,132	7	
40 - 44		1,163	7.5	183	29	948	3		806	5.2	99	58	643	6	
45 - 49		645	4.2	50	23	570	2		408	2.6	32	53	322		1
50 - 54		426	2.8	34	43	348	1		221	1.4	13	46	161	1	
55 - 59		297	1.9	16	56	225			133	.9	2	34	97		
60 - 64		183	1.2	15	62	106			103	.7	3	49	51		
65 - 69		130	.8	8	75	47			53	.3		38	15		
70 - 74		61	.4	2	37	22			25	.2		21	4		
75 & OVER		47	.3	4	33	10			14	.1	2	7	5		
UNKNOWN															

TABLE 58

MARRIAGES BY OCCUPATION OF GROOM AND OF BRIDE
STATE OF HAWAII, 1985

CODE OCC OF GROOM	TOTAL	PERCENT	OCCUPATION CODE OF BRIDE											
			0	1	2	3	4	5	6	7	8	9	10	UNKNOWN
TOTAL	15,421	100.0	3,756	2,407	1,312	3,869	1,176	254	161	1,636	6	56	785	3
PERCENT			24.4	15.6	8.5	25.1	7.6	1.6	1.0	10.6		.4	5.1	
0 NO OCCUPATION	851	5.5	441	72	30	136	39	8	11	76		3	35	
1 PRO,TECH &KIND	2,664	17.3	348	1,078	236	570	191	41	8	177		4	11	
2 FARM,MAN &OFFI	2,589	16.8	425	432	504	689	235	39	20	224	1	7	12	1
3 CLER & KINDRED	699	4.5	141	67	44	309	58	9	4	60		2	6	
4 SALES WORKERS	1,086	7.0	102	189	115	296	210	5	4	99			6	
5 CRAFT,FOREMEN	2,193	14.2	533	240	174	722	141	84	30	275	1	4	19	
6 OPERATIVES	890	5.8	223	64	47	310	73	20	45	93	3	5	7	
7 PRI HOUSEHOLD	1,276	8.3	237	98	76	339	97	10	13	326		5	15	
8 FARM LABORERS	27	.2	12	2	1	4	1		2	5				
9 LABOR EX FARM	544	3.5	190	34	35	119	24	15	12	87		24	4	
10 ARMED FORCES	2,587	16.8	1,011	131	43	371	136	24	12	212	1	2	669	
UNKNOWN	15	.1	3		2	4	1			2			1	2

TABLE 59

MARRIAGES BY PREVIOUS MARITAL STATUS OF GROOM AND OF BRIDE
STATE OF HAWAII, 1985

MARR. STAT. GROOM	TOTAL	PERCENT	MARITAL STATUS OF BRIDE				
			NEVER MARRIED	WIDOWED	DIVORCED	ANNULMENT	UNKNOWN
TOTAL	15,421	100.0	9,394	425	5,561	40	1
PERCENT			60.9	2.8	36.1	.3	
NEVER MARRIED	9,366	60.7	7,305	83	1,958	19	1
WIDOWED	414	2.7	65	137	211	1	
DIVORCED	5,607	36.4	2,005	205	3,377	20	
ANNULMENT	34	.2	19		15		
UNKNOWN							

TABLE 60

MARRIAGES BY NUMBER OF TIMES GROOM AND BRIDE PREVIOUSLY MARRIED
STATE OF HAWAII, 1985

NO. GROOM MARRIED	TOTAL	PERCENT	TIMES PREVIOUSLY MARRIED - BRIDE						
			NONE	1	2	3	4	5 OR >	UNKNOWN
TOTAL	15,421	100.0	9,394	4,788	1,040	174	21	4	
PERCENT			60.9	31.0	6.7	1.1	.1		
NONE	9,366	60.7	7,305	1,795	244	18	3	1	
1	4,761	30.9	1,777	2,370	512	91	8	3	
2	1,092	7.1	277	537	225	45	8		
3	158	1.0	30	65	46	16	1		
4	38	.2	4	20	10	3	1		
5 & >	6		1	1	3	1			
UNKNOWN									

TABLE 61
MARRIAGES BY RACE AND AGE OF GROOM
STATE OF HAWAII, 1985

RACE OF GROOM	TOT	PERCENT	AGE OF GROOM 15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 &>	UNK
ALL RACES	15,421	100.0	23	400	3421	3925	2741	1959	1163	645	426	297	183	130	61	47	
CAUCASIAN	9,041	58.6	3	123	1655	2049	1628	1394	847	496	316	219	132	106	44	29	
HAWAIIAN	73	.5		4	18	15	15	5	5	1	3	3	2	1	1		
PART HAWN	1,551	10.1	10	122	499	380	240	124	71	46	27	14	7	7	2	2	
CHINESE	446	2.9		4	72	173	99	50	21	8	7	6	2	2	2		
FILIPINO	1,231	8.0	5	63	391	355	170	88	52	28	20	18	15	5	8	13	
JAPANESE	1,529	9.9	1	17	214	544	395	172	92	32	24	22	10	3	2	1	
PUERTO RCN	149	1.0		5	61	41	16	9	6	3	1	3	2	2		2	
KOREAN	135	.9		2	25	44	21	9	10	4	7	7	4	1	1		
SAMOAN	205	1.3	2	19	75	46	27	16	13	3	3	1	2	1			
NEGRO	621	4.0		23	278	157	71	40	28	12	7	3	1	1			
PORTUGUESE	101	.7		1	28	20	15	14	10	2	4	1	5	1			
VIETNAMESE	23	.1			1	11	7	4									
OTHER	316	2.0	2	17	104	90	37	34	13	10	7		1		1		
UNKNOWN																	

TABLE 61A
RESIDENT MARRIAGES BY RACE AND AGE OF GROOM
STATE OF HAWAII, 1985

	TOTAL	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 &>
TOTAL	9893	23	385	2927	2655	1615	999	533	252	174	138	90	52	26	24
CAUCASIAN	3931	3	109	1222	901	609	487	251	121	77	64	42	29	10	6
HAWAIIAN	70	1	4	16	15	14	5	5	1	3	3	2	1	1	1
PART-HAWN	1521	10	122	491	371	235	122	66	40	26	14	7	7	2	2
CHINESE	388	1	4	69	153	80	42	19	5	6	4	2	2	2	
FILIPINO	1191	5	63	381	347	160	81	51	26	18	14	15	5	8	13
JAPANESE	1429	1	17	209	504	356	162	89	33	23	22	9	3	2	1
PUERTO RCN	142	1	4	60	36	16	9	4	3	1	3	2	2		1
KOREAN	127	1	2	25	40	19	9	4	6	7	4	4	1	1	
SAMOAN	199	2	19	74	46	26	15	9	2	3	1	1	1		
NEGRO	495	1	23	253	134	46	20	10	4	3	1	1	1		
PORTUGUESE	100	1	1	28	19	15	14	10	2	4	1	5	1		
VIETNAMESE	23	1	1	11	11	7	4	1							
OTHERS	277	2	17	98	78	32	29	10	7	4	1	1	1		

TABLE 62

MARRIAGES BY RACE AND AGE OF BRIDE
STATE OF HAWAII, 1985

RACE OF BRIDE	TOT	PERCENT	AGE OF BRIDE 15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & O	UNK
ALL RACES	15,421	100.0	169	986	4210	4184	2620	1489	806	408	221	133	103	53	25	14	
CAUCASIAN	8,344	54.1	43	358	1910	2162	1594	1003	570	288	162	101	77	42	23	11	
HAWAIIAN	53	.3		3	18	10	10	4	3	1	1	1	1	1			
PART HAWN	1,603	10.4	40	240	632	353	165	80	49	22	7	8	4	1	2		
CHINESE	535	3.5	5	16	131	190	112	45	14	6	7	3	3	1		1	
FILIPINO	1,613	10.5	48	166	592	406	191	90	54	33	15	7	8	2		1	
JAPANESE	1,864	12.1	6	72	456	745	324	141	66	22	16	6	7	2		1	
PUERTO RCN	81	.5	1	8	28	20	5	8	3	3	3			2			
KOREAN	355	2.3	1	10	86	78	76	52	24	17	5	5		1			
SAMOAN	176	1.1	9	29	74	32	17	8	5	2		1					
NEGRO	397	2.6	7	44	151	96	65	22	6	1	4		1				
PORTUGUESE	96	.6	3	14	34	23	11	5	1	4			1				
VIETNAMESE	45	.3		2	10	8	13	9	2			1					
OTHER	259	1.7	6	24	88	61	37	22	9	9	1		1	1			
UNKNOWN																	

TABLE 62A

RESIDENT MARRIAGES BY RACE AND AGE OF BRIDE
STATE OF HAWAII, 1985

	TOTAL	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 &O
TOTAL	9893	166	908	3238	2592	1450	769	369	182	89	55	47	16	6	6
CAUCASIAN	3380	40	291	1060	777	548	341	153	74	38	24	21	6	4	3
HAWAIIAN	52	1	3	17	10	10	4	3	1	1	1	1	1	1	
PART HAWN	1565	40	238	619	340	159	78	47	22	7	8	4	1	2	
CHINESE	441	6	16	115	150	88	38	12	5	3	3	3	1	1	1
FILIPINO	1548	48	163	572	387	179	85	54	30	13	6	8	2	1	1
JAPANESE	1697	6	71	425	674	284	126	58	21	16	6	7	2	1	1
PUERTO RCN	76	1	8	26	17	5	8	3	3	3	1		2	1	
KOREAN	318	1	9	76	68	70	48	22	13	5	5	1	1	1	
SAMOAN	170	8	29	73	31	15	6	5	2	1	1	1	1	1	
NEGRO	300	7	41	138	65	38	5	2	1	2	1	1	1	1	
PORTUGUESE	94	3	14	33	22	11	5	1	4	1	1	1	1	1	
VIETNAMESE	42	1	2	9	7	13	8	2	1	1	1	1	1	1	
OTHERS	210	6	23	75	44	30	17	7	6	1	1	1	1	1	

TABLE 63

MARRIAGES BY RESIDENCE OF GROOM AND OF BRIDE
STATE OF HAWAII, 1985

RESID OF GROOM	TOTAL RECORDED	PER CENT	RESIDENCE OF BRIDE															
			TOTAL	COUNTY OF HAWAII			COUNTY OF HONOLULU			KALAWAO	COUNTY OF KAUAI			COUNTY OF MAUI				NONRES	UNK
				TOTAL	HILO	BAL	TOTAL	HONO	BAL		TOTAL	KAUAI	NIIHAU	TOTAL	LANAI	MAUI	MOLOKAI		
TOTAL	15,421	100.0	9,539	870	297	573	7,489	3,609	3,880		390	390		790	12	719	59	5,842	
STATE OF HAWAII	9,517	61.7	9,163	851	290	561	7,155	3,453	3,702		384	384		773	12	705	56	354	
COUNTY OF HAWAII	870	5.6	863	833	282	551	27	14	13		1	1		2		2		7	
CITY OF HILO	296	1.9	294	281	249	32	13	9	4									2	
BAL. OF COUNTY	574	3.7	569	552	33	519	14	5	9		1	1		2		2		5	
COUNTY OF HONOLUL	7,455	48.3	7,122	15	6	9	7,089	3,415	3,674		3	3		15		13	2	333	
CITY OF HONO.	3,312	21.5	3,213	4	1	3	3,206	2,884	322					8		6	2	94	
BAL. OF COUNTY	4,143	26.9	3,904	11	5	6	3,883	531	3,352		3	3		7		7		239	
COUNTY OF KALAWAO	2	0.0	2				1	1						1			1		
COUNTY OF KAUAI	402	2.6	399				18	12	6		380	380		1			1	3	
ISL OF KAUAI	402	2.6	399				18	12	6		380	380		1			1	3	
ISL OF NIIHAU																			
COUNTY OF MAUI	788	5.1	777	3	2	1	20	11	9					754	12	690	52	11	
ISL OF LANAI	13	.1	12											12	12			1	
ISL OF MAUI	723	4.7	714	3	2	1	19	10	9					692		690	2	9	
ISL OF MOLOKAI	52	.3	51				1	1						50			50	1	
NONRESIDENTS	5,904	38.3	376	19	7	12	334	156	178		6	6		17		14	3	5,528	
UNKNOWN																			

TABLE 64

MARRIAGES BY RACE OF GROOM AND RACE OF BRIDE
STATE OF HAWAII, 1985

RACE OF GROOM	TOTAL	PERCENT	RACE OF BRIDE														OUT MARRIAGES	
			CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGESE	VIETNESE	OTHER RACES	UNKN	TOTAL	RATE/1000
ALL RACES	15,421	100.0	8344	53	1603	535	1613	1864	81	355	176	397	96	45	259		5098	330
PERCENT			54.1	.3	10.4	3.5	10.5	12.1	.5	2.3	1.1	2.6	.6	.3	1.7		33.1	2.1
CAUCASIAN	9,041	58.6	7238	12	320	165	461	445	15	129	31	60	18	22	125		1803	199
HAWAIIAN	73	.5	25	11	23	1	4	5	2		1		1				62	849
PART HAWN	1,551	10.1	333	15	672	46	198	189	10	24	14	2	28		23		879	566
CHINESE	446	2.9	65		28	178	21	131		17	1			2	3		268	601
FILIPINO	1,231	8.0	151	3	185	26	702	104	11	15	7		13	2	5		529	429
JAPANESE	1,529	9.9	191	1	146	97	96	902	3	77	1	1	9	2	3		627	410
PUERTO RCN	149	1.0	33	1	28	3	28	6	25	3	2	8	3		4		124	832
KOREAN	135	.9	13	1	9	3	8	26		75							60	444
SAMOAN	205	1.3	34	2	49	3	8	8	1		93		3		4		112	546
NEGRO	621	4.0	139		52	3	36	16	7	12	18	323	3	1	12		298	479
PORTUGUESE	101	.7	13	3	32	2	15	13	1	1		2	11		2		90	891
VIETNAMESE	45	.3	1	1		3	1	2						15			8	347
OTHER	316	2.0	96	3	59	5	35	17	6	2	8	1	7	1	78		238	753
UNKNOWN																		
OUT MARRIAGES	5,098	33.1	1106	42	931	357	911	962	56	280	83	74	65	30	181			
RATE/1000	333		132	792	580	667	564	516	691	788	471	186	885	666	698			

TABLE 64A

RESIDENT MARRIAGES BY RACE OF GROOM AND RACE OF BRIDE
STATE OF HAWAII, 1985

RACE OF GROOM	TOTAL	RACE OF BRIDE									
		CAUCASIAN	HAWAIIAN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RCN	KOREAN	SAMOAN	NEGRO
TOTAL	9893	3360	52	1565	441	1548	1697	76	318	170	346
CAUCASIAN	3931	2627	12	291	112	422	358	13	103	29	44
HAWAIIAN	74	22	11	23	1	4	5	2		1	1
PART-HAWN	1521	306	15	668	40	195	189	10	24	13	21
CHINESE	388	50	1	28	148	20	121	1	15	1	1
FILIPINO	1191	140	2	183	24	688	102	11	14	7	1
JAPANESE	1429	163	1	145	90	94	843	3	75	1	1
PUERTO RCN	142	39	1	28	2	27	6	23	3	2	8
KOREAN	127	12	1	9	2	8	24	1	71	1	1
SAMOAN	199	91	2	49	3	8	8	1	1	90	4
NEGRO	495	101	1	51	3	35	13	7	11	18	242
PORTUGUESE	100	18	3	32	2	15	13	1	1	1	2
VIETNAMESE	23	1	1	1	3	1	2	1	1	1	1
OTHERS	277	72	3	58	9	31	15	5	1	8	1

TABLE 65

DIVORCES AND ANNULMENTS BY PLACE AND MONTH OF OCCURRENCE
STATE OF HAWAII, 1985

COUNTY OF OCCURRENCE		YEAR		MONTH OF OCCURRENCE											
		NUMBER	RATE*	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
STATE OF HAWAII	NUMBER	4,887	4.6	410	348	368	434	470	427	451	332	450	444	320	433
	PERCENT	100.0		8.4	7.1	7.5	8.9	9.6	8.7	9.2	6.8	9.2	9.1	6.5	8.9
HAWAII		513	4.7	40	54	34	52	31	65	57	30	46	47	27	30
HONOLULU		3,772	4.6	323	253	284	341	392	316	335	241	347	339	243	358
KAUAI		185	4.1	20	14	17	11	19	19	10	14	17	11	24	10
MAUI		417	4.9	27	27	33	30	28	28	45	47	40	47	26	35
UNKNOWN															

*RATE PER 1,000 RESIDENT POPULATION

TABLE 66

DIVORCES AND ANNULMENTS BY NUMBER OF CHILDREN REPORTED UNDER 18 YEARS
STATE OF HAWAII, 1985

TYPE OF DECREE		TOTAL		NUMBER OF CHILDREN REPORTED UNDER 18 YEARS OF AGE											
		NUMBER	PERCENT	NONE	1	2	3	4	5	6	7	8	9	> 9	UNKNOWN
TOTAL	NUMBER	4,887	100.0	2167	1270	946	367	93	24	7	2				11
	PERCENT	100.0		44.3	26.0	19.4	7.5	1.9	.5	.1					.2
DIVORCES		4,873	99.7	2161	1267	942	366	93	24	7	2				11
ANNULMENTS		12	.2	5	3	4									
UNKNOWN		2		1			1								

TABLE 67

DIVORCES AND ANNULMENTS BY RACE AND AGE OF HUSBAND
STATE OF HAWAII, 1985

RACE OF HUSBAND		ALL AGES		AGE OF HUSBAND															
		NUMBER	PERCENT	UNDER 18	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & OVER	UNKNOWN
ALL RACES	NUMBER	4,887	100.0		10	529	1015	1029	858	552	346	212	125	87	44	25	20	35
	PERCENT	100.0			.2	10.8	20.8	21.1	17.6	11.3	7.1	4.3	2.6	1.8	.9	.5	.4	.7
CAUCASIAN		2,339	47.9		7	304	485	458	426	254	152	105	55	41	21	8	4	19
HAWAIIAN		55	1.1			3	7	9	9	10	5	7	2	1	1	1		
PART HAWAIIAN		528	10.8			40	126	110	102	62	42	25	7	9	2	2		1
CHINESE		165	3.4			5	29	38	35	8	15	10	11	5	4	2	1	3
FILIPINO		516	10.6			53	105	113	77	61	28	24	13	9	7	8	14	4
JAPANESE		622	12.7			27	95	147	130	93	61	26	24	13	4	2		
PUERTO RICAN		65	1.3		1	10	16	9	7	9	5	2	3	2				1
KOREAN		116	2.4			1	17	29	23	15	12	4	3	4	3	1	1	3
SAMOAN		47	1.0			6	14	12	6	5	1	1	2					
NEGRO		246	5.0		1	62	79	59	18	13	8	3	1					2
PORTUGUESE		76	1.6			7	17	15	10	13	5	3	2	3	1			
VIETNAMESE		7	.1			1	3	2				1						
OTHER RACES		102	2.1		1	10	22	27	15	9	12	1	2			1		2
UNKNOWN		3	.1				1	1							1			

TABLE 68

DIVORCES AND ANNULMENTS BY RACE AND AGE OF WIFE
STATE OF HAWAII, 1985

RACE OF WIFE		ALL AGES		AGE OF WIFE														
		NUMBER	PERCENT	UNDER 18	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & OVER	UNKNOWN
ALL RACES	NUMBER	4,987	100.0	4	41	790	1181	1073	734	482	251	141	79	42	19	12	7	31
	PERCENT	100.0		.1	.8	16.2	24.2	22.0	15.0	9.9	5.1	2.9	1.6	.9	.4	.2	.1	.6
CAUCASIAN		2,231	45.7	2	21	449	521	441	313	223	113	61	32	23	8	6	4	14
HAWAIIAN		45	.9			9	6	12	8	1	1	5		1		1		1
PART HAWAIIAN		516	10.6		5	93	133	109	69	50	26	12	11	3	1	3		1
CHINESE		177	3.6			12	40	53	29	16	9	11	3	3	1			
FILIPINO		568	11.6		6	79	165	143	71	54	24	9	7	4	2			4
JAPANESE		681	13.9		2	45	151	168	129	79	47	28	18	8	4	1	1	
PUERTO RICAN		41	.8		1	7	9	7	9	2	3	1	1					1
KOREAN		256	5.2	1	2	14	63	61	51	31	17	9	1		2	1	1	2
SAMOAN		36	.7			7	12	8	5		1	1						2
NEGRO		155	3.2		3	55	45	24	15	6	4							3
PORTUGUESE		63	1.3			7	14	14	11	6	2	3	5				1	
VIETNAMESE		31	.6		1	3	4	13	7	1	2							
OTHER RACES		82	1.7	1		10	17	18	17	13	2	1	1					2
UNKNOWN		5	.1				1	2							1			1

TABLE 69

DIVORCES AND ANNULMENTS BY RACE OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1985

RACE OF HUSBAND		ALL RACES		RACE OF WIFE													
		NUMBER	PERCENT	CAUCASIAN	HAWN	PART HAWN	CHINESE	FILIPINO	JAPANESE	PUERTO RICAN	KOREAN	SAMOAN	NEGRO	PORTUGUESE	VIETNAMESE	OTHER RACES	UNKNOWN
ALL RACES	NUMBER	4,887	100.0	2231	45	516	177	568	681	41	256	36	155	63	31	82	5
	PERCENT	100.0		45.7	.9	10.6	3.6	11.6	13.9	.8	5.2	.7	3.2	1.3	.6	1.7	.1
CAUCASIAN		2,339	47.9	1735	12	111	44	124	136	9	87	8	16	8	15	32	2
HAWAIIAN		55	1.1	17	11	10	2	2	6	2				3		2	
PART HAWAIIAN		528	10.8	129	5	214	23	58	69	3	11		1	13	1	4	
CHINESE		165	3.4	34		8	64	8	38		9			2	1	1	
FILIPINO		516	10.6	78	3	62	7	296	40	4	5	3	1	13	2	2	
JAPANESE		622	12.7	95	2	48	30	35	358	2	38			6	4	3	1
PUERTO RICAN		65	1.3	21	2	7	1	6	4	12	4		1	2	1	4	
KOREAN		116	2.4	9		7	1	2	11		83	1		1			1
SAMOAN		47	1.0	10	3	6		2	1		1	22	1			1	
NEGRO		246	5.0	49	3	12	1	18	8	3	13	2	134	1		2	
PORTUGUESE		76	1.6	20	3	16		14	6	2	1		1	13			
VIETNAMESE		7	.1												7		
OTHER RACES		102	2.1	33	1	15	4	3	4	4	3			4		31	
UNKNOWN		3	.1	1							1						1

TABLE 70

DIVORCES AND ANNULMENTS BY LEGAL GROUNDS AND DURATION OF MARRIAGE
STATE OF HAWAII, 1985

LEGAL GROUNDS		TOTAL		DURATION OF MARRIAGE IN YEARS													
		NUMBER	PERCENT	UNDER 1	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & OVER	UNKNOWN
DIVORCES & ANNULMENTS	NUMBER	4,887	100.0	184	437	503	500	446	1392	723	389	241	68				4
	PERCENT	100.0		3.8	8.9	10.3	10.2	9.1	28.5	14.8	8.0	4.9	1.4				.1
ABSOLUTE DIVORCES *		4,875	99.8	179	435	500	498	446	1392	723	389	241	68				4
MARR.IRRETR.BROKEN		4,846	99.2	179	435	500	497	443	1382	715	384	239	68				4
SEPARATION		29	.6				1	3	10	8	5	2					
GRIEV.MENTAL SUFF.																	
OTHER																	
UNKNOWN																	
ANNULMENTS		12	.2	5	2	3	2										
MINOR		1		1													
UNDIV.SPOUSE ALIVE		7	.1	3	1	2	1										
DID NOT COHABIT		1				1											
FAILURE TO PROVIDE																	
PHYS. INCOMPATIBLE																	
FRAUD		2		1			1										
OTHER		1			1												
UNKNOWN																	

* INCLUDES TYPE OF DECREE UNSPECIFIED.

TABLE 71

DIVORCES AND ANNULMENTS BY EDUCATION OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1985

EDUCATION OF HUSBAND YEARS OF SCHOOL		TOTAL		EDUCATION OF WIFE - YEARS IN SCHOOL											
					GRADE SCHOOL							COLLEGE			UNKNOWN
		NUMBER	PERCENT	NONE	1-4	5-6	7-8	9	10	11	12	1-3	4	5+	
TOTAL	NUMBER	4,887	100.0	11	19	59	65	106	133	201	2263	1153	527	245	105
	PERCENT	100.0		.2	.4	1.2	1.3	2.2	2.7	4.1	46.3	23.6	10.8	5.0	2.1
NONE		7	.1	1		2	1	1							2
GRADE SCHOOL: 1 - 4		28	.6	1	4	8	2		1		2	5	1		4
5 - 6		27	.6	1	2	8	1	1		1	5	3	1	1	3
7 - 8		63	1.3		1	3	7	5	4	3	24	7	3		6
9		76	1.6	3	1		2	5	4	10	34	11	2		4
10		135	2.8		1	1	1	6	16	11	72	20	2		5
11		201	4.1		1	3	5	8	10	26	102	31	6	2	7
12		2,187	44.8	3	6	16	25	45	66	108	1397	349	94	36	42
COLLEGE: 1 - 3		1,039	21.3	1	3	3	12	18	22	21	356	429	113	63	18
4		623	12.7			3	1	4	1	10	163	189	198	53	4
5+		359	7.3			3	1	2			59	81	100	109	4
UNKNOWN		142	2.9	1		9	7	11	9	11	52	28	7	1	6

TABLE 72

DIVORCES AND ANNULMENTS BY RESIDENCE OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1985

RESIDENCE OF HUSBAND	TOTAL RECORDED	TOTAL	RESIDENCE OF WIFE												
			STATE OF HAWAII												NON-RESIDENT
			COUNTY OF HAWAII			COUNTY OF HONOLULU			COUNTY OF KAUAI	COUNTY OF MAUI				UNKNOWN	
			TOTAL	HILO	BAL.	TOTAL	HON.	BAL.		TOTAL	MAUI	LANAI	MOLOKAI		
TOTAL RECORDED	4,887	4,280	462	159	303	3,254	1,632	1,622	166	366	353	5	8	32	607
STATE OF HAWAII	4,286	3,679	417	149	268	2,746	1,380	1,366	160	324	314	3	7	32	607
COUNTY OF HAWAII	475	441	379	132	247	45	26	19	4	8	8			5	34
CITY OF HILO	145	139	123	97	26	13	8	5	1	2	2				6
BALANCE OF COUNTY	330	302	256	35	221	32	18	14	3	6	6			5	28
COUNTY OF HONOLULU	3,229	2,703	29	15	14	2,613	1,306	1,307	17	23	22		1	21	526
CITY OF HONOLULU	1,479	1,279	14	8	6	1,236	959	277	7	12	11		1	10	200
BALANCE OF COUNTY	1,750	1,424	15	7	8	1,377	347	1,030	10	11	11			11	326
COUNTY OF KAUAI	172	159	2	1	1	19	9	10	135	1			1	2	13
COUNTY OF MAUI	354	320	2		2	33	22	11	1	280	273	2	5	4	34
ISLAND OF MAUI	338	308	2		2	32	21	11	1	269	269			4	30
ISLAND OF LANAI	5	4								4	2	2			1
ISLAND OF MOLOKAI	11	8				1	1			7	2		5		3
UNKNOWN	56	56	5	1	4	36	17	19	3	12	11	1			
NONRESIDENT	601	601	45	10	35	508	252	256	6	42	39	2	1		

TABLE 73

DIVORCES AND ANNULMENTS BY AGE OF HUSBAND AND OF WIFE
STATE OF HAWAII, 1985

AGE OF HUSBAND		ALL AGES		AGE OF WIFE													
		NUMBER	PERCENT	UNDER 18	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & OVER	UNKNOWN
ALL AGES	NUMBER	4,887	100.0	4	41	790	1181	1073	734	482	251	141	79	42	19	12	7	31
	PERCENT	100.0		.1	.8	16.2	24.2	22.0	15.0	9.9	5.1	2.9	1.6	.9	.4	.2	.1	.6
UNDER 18																		
18 - 19		10	.2	2	2	4	1											1
20 - 24		529	10.8		31	366	97	21	6	2	1	1						4
25 - 29		1,015	20.8	2	7	322	499	130	29	13	4	1						8
30 - 34		1,029	21.1			52	385	449	95	28	6	4	1					9
35 - 39		858	17.6			27	124	302	332	55	13	2			1			2
40 - 44		552	11.3			8	36	100	166	191	38	9	2					2
45 - 49		346	7.1		1	3	13	38	49	121	87	26	5	1	1			1
50 - 54		212	4.3			1	5	14	31	35	56	49	13	6	1		1	
55 - 59		125	2.6			1	4	6	13	16	24	31	24	5	1			
60 - 64		87	1.8				2	3	4	10	12	12	21	11	4	5	1	2
65 - 69		44	.9				1	1	1	2	7	2	9	11	5	4		1
70 - 74		25	.5				1	1	2	2	1	4	2	5	4	1	1	1
75 & OVER		20	.4			1	4		2	3	1		1	1	2	2	3	
UNKNOWN		35	.7			5	9	8	4	4	1		1	2			1	

HAWAII TUMOR REGISTRY

The total number of resident cancer cases reported in Hawaii in 1984 (the most recent year of complete registration) was 3,095. This represents a 4.0% increase over the number of cases (2,975) reported in 1983. The 1,644 new male cases represented an increase of 43 (or 2.7%) over the previous year. The 1,451 new female cases represented an increase of 77 (or 5.6%) over the previous year.

The sites of the three most common cancers among resident males in 1984 continue to be lung, prostate, and colon in that order. Among resident females, the sites of the three most common cancers in 1984 were breast, lung, and uterus (cervix and corpus together).

In 1984, cancer of the lung was the most common malignant disease in Caucasian and Hawaiian/part-Hawaiian males; of the colon in Japanese males, and of the prostate in Chinese and Filipino males. (Stomach cancer became the fourth most common cancer in Japanese males.) Breast cancer was the most common malignant disease among female residents in 1984.

The median age-at-diagnosis for resident males in 1984 was 66.9 years. The median age-at-diagnosis for resident females in 1984 was 62.1 years. (These ages continue statistics which have remained essentially constant for the last three years.)

Of the 1,644 male resident cases registered in 1984, 1001 (or 60.8%) were alive at last report. Of the 1,451 female resident cases registered in 1984, 1,093 (or 75.3%) were alive at last report.

TABLE 1

MOST COMMON CANCERS REPORTED BY SITE AND RACE
MALE RESIDENTS
STATE OF HAWAII, 1984

SITE	Total All Races	RACE					
		Caucasian	Chinese	Filipino	Hawaiian	Japanese	Other
Total All Sites	1644	572	88	202	175	489	118
Bladder	90	44	6	6	3	25	6
Colon	198	56	9	25	10	87	11
Leukemia	59	15	2	15	8	8	11
Lung	291	106	10	29	51	83	12
Skin	75	55	-	2	1	6	11
Prostate	252	90	17	39	22	71	13
Rectum	99	22	8	15	10	39	5
Stomach	96	12	3	8	13	52	8
Other	484	172	33	63	57	118	41

TABLE 2

MOST COMMON CANCERS REPORTED BY SITE AND RACE
FEMALE RESIDENTS
STATE OF HAWAII, 1984

SITE	Total All Races	RACE					
		Caucasian	Chinese	Filipina	Hawaiian	Japanese	Other
Total All Sites	1451	493	85	121	205	410	137
Breast	401	145	23	26	59	124	24
Cervix	99	34	3	11	16	14	21
Uterus	81	25	7	7	10	23	9
Colon	141	51	14	9	9	49	9
Lung	147	53	7	9	34	32	12
Ovary	56	19	4	2	8	16	7
Rectum	53	15	4	7	5	18	4
Stomach	63	8	2	3	8	40	2
Thyroid	54	10	4	12	10	13	5
Other	356	133	17	35	46	81	44

TABLE 3

HAWAII TUMOR REGISTRATIONS
AGE AND RACE
MALE
STATE OF HAWAII, 1984

AGE	Total All Races	RACE					
		Caucasian	Chinese	Filipino	Hawaiian	Japanese	Other
Total All Ages	1644	572	88	202	175	489	118
0 - 1 Year	2	1	-	-	1	-	-
1 - 4 Years	5	3	-	-	-	-	2
5 - 14 Years	11	2	1	4	1	-	3
15 - 24 Years	17	6	-	1	4	2	4
25 - 34 Years	54	27	4	6	4	5	8
35 - 44 Years	65	25	1	9	11	9	10
45 - 54 Years	148	48	9	18	23	30	20
55 - 64 Years	416	144	21	32	55	133	31
65 - 74 Years	540	197	30	67	53	170	23
75 + Years	380	118	22	65	23	139	13
Unknown	6	1	-	-	-	1	4

TABLE 4

HAWAII TUMOR REGISTRATIONS
AGE AND RACE
FEMALE
STATE OF HAWAII, 1984

AGE	Total All Races	RACE					
		Caucasian	Chinese	Filipina	Hawaiian	Japanese	Other
Total All Ages	1451	493	85	121	205	410	137
0 - 1 Year	1	-	-	-	1	-	-
1 - 4 Years	6	1	-	-	5	-	-
5 - 14 Years	8	2	-	-	6	-	-
15 - 24 Years	27	12	1	1	5	3	5
25 - 34 Years	69	29	2	7	9	8	14
35 - 44 Years	146	44	6	16	28	26	26
45 - 54 Years	203	74	2	26	29	46	26
55 - 64 Years	377	114	20	41	61	119	22
65 - 74 Years	332	121	28	18	41	101	23
75 + Years	273	94	25	12	20	106	16
Unknown	9	2	1	-	-	1	5

TABLE 5

HAWAII TUMOR REGISTRATIONS, RECENT YEARS
VITAL STATUS
MALE
STATE OF HAWAII

VITAL STATUS	YEAR OF DIAGNOSIS			
	1981	1982	1983	1984
Alive, no cancer reported	359	416	451	558
Alive, cancer present	87	121	176	307
Alive, cancer status unknown	156	143	169	136
Expired, no cancer present	66	67	41	31
Expired, cancer present	796	774	761	585
Expired, cancer status unknown	16	24	19	27
TOTAL	1480	1545	1617	1644

TABLE 6

HAWAII TUMOR REGISTRATIONS, RECENT YEARS
VITAL STATUS
FEMALE
STATE OF HAWAII

VITAL STATUS	YEAR OF DIAGNOSIS			
	1981	1982	1983	1984
Alive, no cancer reported	568	558	633	737
Alive, cancer present	58	88	113	226
Alive, cancer status unknown	213	195	163	130
Expired, no cancer present	32	20	35	19
Expired, cancer present	499	515	433	328
Expired, cancer status unknown	13	17	16	11
TOTAL	1383	1393	1393	1451

HAWAII HEALTH SURVEILLANCE PROGRAM
1985

The Hawaii Health Surveillance Program administers a continuous statewide household survey of health and socio-demographic conditions of the state. The survey is conducted as a means of providing Health Department programs and other state and private agencies with statistics for planning and evaluation of health services, programs, and problems. Furthermore, the survey provides demographic information for observing population changes during the intercensal decade.

The households interviewed in the Health Survey are selected systematically from a target population limited to the non-institutional population. During the year 1985, 5,757 households participated, for a total of 17,934 persons. Persons excluded from our sample are those living in military barracks, nursing homes or rest homes, prisons, dormitories, the Island of Niihau, and Kalaupapa Settlement. Because of the exclusion of this group, the health characteristics of the non-institutionalized population can be affected since institutionalization is often contingent upon the health of the person.

The tables which follow are shown in five groups. The first group, Tables 1-14, show the prevalence and number per 1,000 persons per year of selected chronic conditions by geographic area, sex, age, and ethnicity. A comparison of the number of chronic conditions per 1,000 persons per year from 1980 through 1985 are shown in Table 15. The geographic areas used for Oahu include census tracts 1-45 for East Honolulu, 46-66 for West Honolulu, 67-95 and 99-100 for Central Oahu, 96-98 for Waianae, and 101-113 for Windward.

The second group of tables, Tables 16-18, show the activity limitation status for persons with chronic conditions by age and sex and family income. The limitation of activity question was asked only of persons who reported having at least one chronic condition in the 12 months prior to the month of interview. These people were asked to rate themselves in terms of their health according to a scale of 1 to 4. The scale was represented as follows: 1=Not Able to Work At All; 2=Able To Work But Limited In Type Or Amount of Work; 3=Able To Work But Limited In Type Or Amount Of Other Activity; 4=Not Limited In Any Way.

The incidence and number per 100 persons per year of acute conditions is exhibited in Tables 19-28, by geographic areas, sex, age, and ethnicity. Since the frequency of acute conditions are recorded on a monthly basis, the acute conditions were multiplied by twelve (12) in order that a yearly morbidity rate could be calculated. A comparison of the number of acute conditions per 100 persons per year from 1980 through 1985 are shown in Table 29.

Tables 30-34 depict the different types of disability days for persons who have acute and/or chronic conditions by geographic areas and age. Restricted activity day is a day during which a person had to cut down on his usual activity for all or most of the day. A bed day is defined as a day during which a person reported staying in bed for all or most of a day. The work day lost or school day lost is a day during which a person is normally at work or school, but due to an illness or injury, could not work or go to school for all or most of the day. Total restricted activity days include bed days, work days, and school days lost.

TABLE 1
PREVALENCE OF SELECTED CHRONIC CONDITIONS BY GEOGRAPHIC AREA, 1985*

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	24,342	18,698	7,244	2,514	4,837	1,090	3,015	1,782	1,754	2,109
Impairment of back or spine	51,849	37,792	15,692	3,682	10,322	623	7,474	3,582	5,578	4,896
Hypertension without heart involvement	81,357	59,184	20,760	9,566	18,538	2,348	7,971	5,103	8,907	8,163
Arthritis/Rheumatism	34,190	25,499	10,325	3,057	7,072	1,109	3,937	2,578	3,005	3,107
Hearing impairment	36,518	26,378	10,112	2,926	6,456	694	6,190	2,219	3,732	4,189
Asthma with or without hayfever	38,574	25,143	7,242	2,199	9,400	1,287	6,015	2,833	4,124	5,475
Diabetes	21,202	13,909	5,000	2,478	3,651	847	1,932	1,515	1,770	4,009
Mental and nervous condition	16,752	12,437	3,560	1,333	4,591	187	2,767	923	1,276	2,116
Visual impairment	12,081	8,588	3,653	1,196	2,146	155	1,438	1,074	866	1,553
Malignant neoplasms	8,487	6,869	2,550	730	1,987	198	1,404	376	660	582
Chronic and allergic skin conditions	38,826	31,676	9,894	3,298	13,732	606	4,147	2,212	2,594	2,345
Chronic sinusitis	26,379	19,135	5,561	2,017	8,644	900	2,014	1,508	2,556	3,180
Hayfever without asthma	66,918	53,679	20,156	5,106	19,607	1,037	7,773	3,861	6,064	3,313
Stomach ulcer	9,464	6,636	2,848	841	1,829	216	901	551	849	1,429
Bronchitis/Emphysema	15,228	10,468	2,771	1,070	2,878	833	2,917	1,347	1,668	1,745
Benign and unspecified neoplasms	4,365	2,991	1,249	352	873	267	250	529	455	390
Hemorrhoids	14,270	10,644	3,676	527	3,831	581	2,030	1,048	1,291	1,286
Thyroid/Goiter	4,126	3,236	1,370	154	1,333	38	341	79	481	330
Varicose veins	7,741	5,067	2,825	310	959	154	820	788	730	1,156
Gout	12,755	8,708	2,988	1,537	2,368	324	1,492	871	1,159	2,017

*Numbers may not add up due to rounding.

TABLE 2
NUMBER OF SELECTED CHRONIC CONDITIONS PER 1,000 PERSONS BY GEOGRAPHIC AREA, 1985

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	24.0	24.1	30.0	28.9	16.7	32.8	24.3	39.5	20.4	19.3
Impairment of back or spine	51.1	48.8	65.0	42.4	35.7	18.7	60.2	79.3	65.0	44.7
Hypertension without heart involvement	80.1	76.4	86.1	110.1	64.0	70.6	64.2	113.0	103.8	74.6
Arthritis/Rheumatism	33.7	32.9	42.8	35.2	24.4	33.3	31.7	57.1	35.0	28.4
Hearing impairment	36.0	34.0	41.9	33.7	22.3	20.9	49.9	49.2	43.5	38.3
Asthma with or without hayfever	38.0	33.7	30.0	25.3	32.5	38.7	48.5	62.7	48.1	50.0
Diabetes	20.9	18.0	20.7	28.5	12.6	25.5	15.6	33.6	20.6	36.6
Mental and nervous condition	16.5	16.1	14.8	15.4	15.9	5.6	22.3	20.4	14.9	19.3
Visual impairment	11.9	11.1	15.1	13.8	7.4	4.7	11.6	23.8	10.1	14.2
Malignant neoplasms	8.4	8.9	10.6	8.4	6.9	6.0	11.3	8.3	7.7	5.3
Chronic and allergic skin conditions	38.2	40.9	41.0	38.0	47.4	18.2	33.4	49.0	30.2	21.4
Chronic sinusitis	26.0	24.7	23.1	23.2	29.9	27.1	16.2	33.4	29.8	29.1
Hayfever without asthma	65.9	69.3	83.6	58.8	67.7	31.2	62.6	85.5	70.7	30.3
Stomach ulcer	9.3	8.6	11.8	9.7	6.3	6.5	7.3	12.2	9.9	13.1
Bronchitis/Emphysema	15.0	13.5	11.5	12.3	9.9	25.0	23.5	29.8	19.4	16.0
Benign and unspecified neoplasms	4.3	3.9	5.2	4.1	3.0	8.0	2.0	11.7	5.3	3.6
Hemorrhoids	14.1	13.7	15.2	6.1	13.2	17.5	16.4	23.2	15.1	11.8
Thyroid/Goiter	4.1	4.2	5.7	1.8	4.6	1.1	2.8	1.7	5.6	3.0
Varicose veins	7.6	6.5	11.7	3.6	3.3	4.6	6.6	17.5	8.5	10.6
Gout	12.6	11.2	12.4	17.7	8.2	9.7	12.0	19.3	13.5	18.4

TABLE 3
PREVALENCE OF SELECTED CHRONIC CONDITIONS FOR MALES BY GEOGRAPHIC AREA, 1985*

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	13,002	9,607	3,677	1,403	2,209	536	1,783	1,001	953	1,441
Impairment of back or spine	28,341	20,040	8,405	2,183	4,919	263	4,270	2,116	3,216	2,969
Hypertension without heart involvement	42,831	30,968	10,613	4,483	10,411	1,330	4,131	2,745	4,519	4,599
Arthritis/Rheumatism	12,050	9,216	2,939	1,276	2,753	596	1,652	1,022	862	951
Hearing impairment	25,013	18,405	6,091	2,266	5,039	397	4,613	1,356	2,323	2,929
Asthma with or without hayfever	20,255	13,927	3,350	1,141	5,341	830	3,265	1,458	2,226	2,644
Diabetes	10,452	7,005	2,517	1,636	1,364	388	1,099	656	745	2,046
Mental and nervous condition	8,443	6,700	2,164	616	2,506	105	1,309	462	564	717
Visual impairment	5,884	4,408	1,393	782	1,450	30	754	451	280	745
Malignant neoplasms	4,680	3,786	1,228	218	1,542	154	644	168	316	411
Chronic and allergic skin conditions	17,401	14,035	4,451	1,550	5,997	350	1,688	892	1,193	1,281
Chronic sinusitis	11,445	8,669	2,507	778	4,264	234	887	756	1,147	873
Hayfever without asthma	30,367	24,580	8,928	2,785	8,913	414	3,540	1,863	2,624	1,300
Stomach ulcer	5,528	3,933	1,685	470	966	178	633	191	548	856
Bronchitis/Emphysema	7,967	5,462	1,344	462	1,698	525	1,433	602	1,003	901
Benign and unspecified neoplasms	1,536	1,111	217	218	353	183	140	163	188	74
Hemorrhoids	6,811	5,138	2,063	257	1,505	262	1,051	364	475	834
Thyroid/Goiter	822	650	99	-	468	-	83	31	99	42
Varicose veins	1,788	1,412	831	137	151	72	222	138	128	111
Gout	10,929	7,659	2,704	1,349	2,196	324	1,088	743	957	1,570

*Numbers may not add up due to rounding.

TABLE 4
NUMBER OF SELECTED CHRONIC CONDITIONS PER 1,000 MALES PER YEAR BY GEOGRAPHIC AREA, 1985

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	25.6	24.8	31.5	33.0	14.8	31.8	28.7	42.8	22.1	26.2
Impairment of back or spine	55.7	51.7	71.9	51.4	33.0	15.6	68.8	90.6	74.7	54.0
Hypertension without heart involvement	84.2	79.9	90.8	105.5	69.8	78.9	66.5	117.5	104.9	83.6
Arthritis/Rheumatism	23.7	23.8	25.2	30.0	18.5	35.4	26.6	43.7	20.0	17.3
Hearing impairment	49.1	47.5	52.1	53.3	33.8	23.6	74.3	58.0	53.9	53.2
Asthma with or without hayfever	39.8	36.0	28.7	26.9	35.8	49.3	52.6	62.4	51.7	48.1
Diabetes	20.5	18.1	21.5	38.5	9.2	23.0	17.7	28.1	17.3	37.2
Mental and nervous condition	16.6	17.3	18.5	14.5	16.8	6.2	21.1	19.8	13.1	13.0
Visual impairment	11.6	11.4	11.9	18.4	9.7	1.8	12.1	19.3	6.5	13.6
Malignant neoplasms	9.2	9.8	10.5	5.1	10.3	9.1	10.4	7.2	7.3	7.5
Chronic and allergic skin conditions	34.2	36.2	38.1	36.5	40.2	20.8	27.2	38.2	27.7	23.3
Chronic sinusitis	22.5	22.4	21.5	18.3	28.6	13.9	14.3	32.4	26.6	15.9
Hayfever without asthma	59.7	63.5	76.4	65.5	59.8	24.6	57.0	79.8	60.9	23.6
Stomach ulcer	10.9	10.2	14.4	11.1	6.5	10.6	10.2	8.2	12.7	15.6
Bronchitis/Emphysema	15.7	14.1	11.5	10.9	11.4	31.2	23.1	25.8	23.3	16.4
Benign and unspecified neoplasms	3.0	2.9	1.9	5.1	2.4	10.9	2.3	7.0	4.4	1.4
Hemorrhoids	13.4	13.3	17.7	6.1	10.1	15.6	16.9	15.6	11.0	15.2
Thyroid/Goiter	1.6	1.7	0.9	-	3.1	-	1.3	1.3	2.3	0.8
Varicose veins	3.5	3.6	7.1	3.2	1.0	4.3	3.6	5.9	3.0	2.0
Gout	21.5	19.8	23.1	31.7	14.7	19.2	17.5	31.8	22.2	28.5

TABLE 5
PREVALENCE OF SELECTED CHRONIC CONDITIONS FOR FEMALES BY GEOGRAPHIC AREA, 1985*

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	11,341	9,091	3,567	1,110	2,628	553	1,232	781	802	668
Impairment of back or spine	23,508	17,753	7,287	1,499	5,403	360	3,204	1,466	2,362	1,927
Hypertension without heart involvement	38,526	28,216	10,147	5,083	8,128	1,018	3,840	2,359	4,388	3,563
Arthritis/Rheumatism	22,139	16,283	7,386	1,780	4,319	513	2,286	1,557	2,144	2,156
Hearing impairment	11,505	7,973	4,022	661	1,417	297	1,578	864	1,409	1,260
Asthma with or without hayfever	18,319	12,216	3,892	1,058	4,059	457	2,750	1,375	1,899	2,831
Diabetes	10,751	6,904	2,483	842	2,287	458	833	859	1,025	1,962
Mental and nervous condition	8,309	5,737	1,395	717	2,085	82	1,458	461	712	1,399
Visual impairment	6,196	4,180	2,261	414	695	125	685	623	586	808
Malignant neoplasms	3,806	3,083	1,321	512	446	44	760	208	344	171
Chronic and allergic skin conditions	21,424	17,641	5,443	1,748	7,735	256	2,459	1,320	1,401	1,063
Chronic sinusitis	14,934	10,465	3,054	1,239	4,380	666	1,127	752	1,409	2,307
Hayfever without asthma	36,550	29,099	11,229	2,321	10,694	623	4,233	1,998	3,440	2,013
Stomach ulcer	3,037	2,703	1,163	371	862	38	269	360	301	573
Bronchitis/Emphysema	7,261	5,006	1,427	608	1,180	308	1,484	745	665	845
Benign and unspecified neoplasms	2,829	1,879	1,032	134	520	84	110	367	267	315
Hemorrhoids	7,459	5,506	1,613	270	2,326	318	979	684	817	453
Thyroid/Goiter	3,304	2,586	1,271	154	866	38	258	48	383	287
Varicose veins	5,953	3,655	1,994	173	808	82	598	651	602	1,045
Gout	1,826	1,049	285	188	172	-	404	128	202	448

*Numbers may not add up due to rounding.

TABLE 6
NUMBER OF SELECTED CHRONIC CONDITIONS PER 1,000 FEMALES PER YEAR BY GEOGRAPHIC AREA, 1985

Selected Chronic Condition	State	Oahu	East Hon.	West Hon.	Central Oahu	Waianae	Wind-ward	Kauai	Maui County	Hawaii
Heart condition	22.4	23.5	28.7	25.0	18.7	33.7	19.9	35.9	18.8	12.3
Impairment of back or spine	46.4	45.8	58.6	33.8	38.5	22.0	51.7	67.3	55.3	35.4
Hypertension without heart involvement	76.1	72.8	81.6	114.6	57.9	62.0	61.9	108.3	102.7	65.5
Arthritis/Rheumatism	43.7	42.0	59.4	40.1	30.8	31.2	36.9	71.4	50.2	39.6
Hearing impairment	22.7	20.6	32.3	14.9	10.1	18.1	25.5	39.7	33.0	23.2
Asthma with or without hayfever	36.2	31.5	31.3	23.9	28.9	27.8	44.4	63.1	44.4	52.0
Diabetes	21.2	17.8	20.0	19.0	16.3	27.9	13.4	39.4	24.0	36.1
Mental and nervous condition	16.4	14.8	11.2	16.2	14.9	5.0	23.5	21.2	16.7	25.7
Visual impairment	12.2	10.8	18.2	9.3	5.0	7.6	11.1	28.6	13.7	14.9
Malignant neoplasms	7.5	8.0	10.6	11.6	3.2	2.7	12.3	9.6	8.1	3.1
Chronic and allergic skin conditions	42.3	45.5	43.8	39.4	55.1	15.6	39.7	60.6	32.8	19.5
Chronic sinusitis	29.5	27.0	24.5	27.9	31.2	40.6	18.2	34.5	33.0	42.4
Hayfever without asthma	72.2	75.1	90.2	52.3	76.2	38.0	68.3	91.7	80.5	37.0
Stomach ulcer	7.8	7.0	9.4	8.4	6.1	2.3	4.3	16.5	7.0	10.5
Bronchitis/Emphysema	14.3	12.9	11.5	13.7	8.4	18.8	23.9	34.2	15.6	15.5
Benign and unspecified neoplasms	5.6	4.9	8.3	3.0	3.7	5.1	1.8	16.8	6.3	5.8
Hemorrhoids	14.7	14.2	13.0	6.1	16.6	19.4	15.8	31.4	19.1	8.3
Thyroid/Goiter	6.5	6.7	10.2	3.5	6.2	2.3	4.2	2.2	9.0	5.3
Varicose veins	11.8	9.4	16.0	3.9	5.8	5.0	9.7	29.9	14.1	19.2
Gout	3.6	2.7	2.3	4.2	1.2	-	6.5	5.9	4.7	8.2

TABLE 7
PREVALENCE OF SELECTED CHRONIC CONDITIONS BY AGE, 1985*

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	24,342	916	4,658	8,460	10,309
Impairment of back or spine	51,849	1,179	26,884	16,662	7,124
Hypertension without heart involvement	81,357	231	13,017	39,329	28,780
Arthritis/Rheumatism	34,190	271	5,721	15,312	12,886
Hearing impairment	36,518	2,910	8,093	11,261	14,255
Asthma with or without hayfever	38,574	16,561	15,163	4,787	2,063
Diabetes	21,202	377	2,755	10,091	7,979
Mental and nervous condition	16,752	1,890	8,076	5,039	1,747
Visual impairment	12,081	643	1,664	3,336	6,438
Malignant neoplasms	8,487	170	1,344	3,570	3,404
Chronic and allergic skin conditions	38,826	10,105	18,574	7,030	3,116
Chronic sinusitis	26,379	2,937	16,750	4,986	1,706
Hayfever without asthma	66,918	15,625	35,969	11,936	3,387
Stomach ulcer	9,464	124	3,754	3,970	1,617
Bronchitis/Emphysema	15,228	5,751	4,858	2,657	1,962
Benign and unspecified neoplasms	4,365	256	1,906	1,351	852
Hemorrhoids	14,270	55	8,645	4,401	1,169
Thyroid/Goiter	4,126	21	1,332	1,842	931
Varicose Veins	7,741	-	2,627	2,944	2,170
Gout	12,755	-	2,200	6,167	4,388

*Numbers may not add up due to rounding.

TABLE 8
NUMBER OF CHRONIC CONDITIONS PER 1,000 PERSONS PER YEAR BY AGE, 1985

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	24.0	3.2	10.3	43.7	124.7
Impairment of back or spine	51.1	4.1	59.3	86.0	86.2
Hypertension without heart involvement	80.1	0.8	28.7	203.0	348.0
Arthritis/Rheumatism	33.7	0.9	12.6	79.0	155.8
Hearing impairment	36.0	10.2	17.9	58.1	172.4
Asthma with or without hayfever	38.0	58.0	33.5	24.7	25.0
Diabetes	20.9	1.3	6.1	52.1	96.5
Mental and nervous condition	16.5	6.6	17.8	26.0	21.1
Visual impairment	11.9	2.2	3.7	17.2	77.9
Malignant neoplasms	8.4	0.6	3.0	18.4	41.2
Chronic and allergic skin conditions	38.2	35.4	41.0	36.3	37.7
Chronic sinusitis	26.0	10.3	37.0	25.7	20.6
Hayfever without asthma	65.9	54.7	79.4	61.6	41.0
Stomach ulcer	9.3	0.4	8.3	20.5	19.6
Bronchitis/Emphysema	15.0	20.1	10.7	13.7	23.7
Benign and unspecified neoplasms	4.3	0.9	4.2	7.0	10.3
Hemorrhoids	14.1	0.2	19.1	22.7	14.1
Thyroid/Goiter	4.1	0.1	2.9	9.5	11.3
Varicose Veins	7.6	-	5.8	15.2	26.2
Gout	12.6	-	4.9	31.8	53.1

TABLE 9
PREVALENCE OF SELECTED CHRONIC CONDITIONS FOR MALES BY AGE, 1985*

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	13,002	566	1,643	5,067	5,725
Impairment of back or spine	28,340	418	14,255	9,935	3,732
Hypertension without heart involvement	42,831	134	7,352	20,014	15,330
Arthritis/Rheumatism	12,050	70	2,373	4,558	5,049
Hearing impairment	25,013	1,914	5,734	9,004	8,362
Asthma with or without hayfever	20,255	10,103	7,125	2,182	845
Diabetes	10,452	353	1,233	4,994	3,872
Mental and nervous condition	8,443	1,438	3,991	2,413	601
Visual impairment	5,884	610	857	1,712	2,706
Malignant neoplasms	4,680	125	715	2,051	1,789
Chronic and allergic skin conditions	17,401	4,678	7,775	3,168	1,780
Chronic sinusitis	11,445	1,449	7,374	1,864	758
Hayfever without asthma	30,367	8,978	15,756	4,175	1,458
Stomach ulcer	5,528	-	2,175	2,345	1,008
Bronchitis/Emphysema	7,967	3,642	1,804	1,134	1,387
Benign and unspecified neoplasms	1,536	214	162	692	468
Hemorrhoids	6,811	55	3,770	2,187	799
Thyroid/Goiter	822	21	270	376	154
Varicose Veins	1,786	-	511	530	747
Gout	10,929	-	1,712	5,504	3,712

*Numbers may not add up due to rounding.

TABLE 10
NUMBER OF CHRONIC CONDITIONS PER 1,000 MALES PER YEAR BY AGE, 1985

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	25.6	3.8	7.3	54.4	134.9
Impairment of back or spine	55.7	2.8	63.2	106.6	88.0
Hypertension without heart involvement	84.2	0.9	32.6	214.7	361.2
Arthritis/Rheumatism	23.7	0.5	10.5	48.9	119.0
Hearing impairment	49.1	13.0	25.4	96.6	197.0
Asthma with or without hayfever	39.8	68.5	31.6	23.4	19.9
Diabetes	20.5	2.4	5.5	53.6	91.2
Mental and nervous condition	16.6	9.8	17.7	25.9	14.2
Visual impairment	11.6	4.1	3.8	18.4	63.8
Malignant neoplasms	9.2	0.9	3.2	22.0	42.2
Chronic and allergic skin conditions	34.2	31.7	34.5	34.0	41.9
Chronic sinusitis	22.5	9.8	32.7	20.0	17.9
Hayfever without asthma	59.7	60.9	69.8	44.8	34.4
Stomach ulcer	10.9	-	9.6	25.2	23.7
Bronchitis/Emphysema	15.7	24.7	8.0	12.2	32.7
Benign and unspecified neoplasms	3.0	1.5	0.7	7.4	11.0
Hemorrhoids	13.4	0.4	16.7	23.5	18.8
Thyroid/Goiter	1.6	0.2	1.2	4.0	3.6
Varicose Veins	3.5	-	2.3	5.7	17.6
Gout	21.5	-	7.6	59.0	87.5

TABLE 11
PREVALENCE OF SELECTED CHRONIC CONDITIONS FOR FEMALES, 1985*

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	11,341	349	3,015	3,392	4,584
Impairment of back or spine	23,508	761	12,629	6,726	3,392
Hypertension without heart involvement	38,526	97	5,665	19,314	13,450
Arthritis/Rheumatism	22,139	201	3,348	10,755	7,837
Hearing impairment	11,505	995	2,359	2,258	5,893
Asthma with or without hayfever	18,319	6,458	8,038	2,605	1,218
Diabetes	10,751	24	1,523	5,096	4,107
Mental and nervous condition	8,309	452	4,085	2,627	1,146
Visual impairment	6,196	33	808	1,624	3,732
Malignant neoplasms	3,806	44	629	1,518	1,615
Chronic and allergic skin conditions	21,424	5,427	10,799	3,862	1,336
Chronic sinusitis	14,934	1,488	9,376	3,122	948
Hayfever without asthma	36,550	6,647	20,213	7,761	1,929
Stomach ulcer	3,937	124	1,579	1,624	609
Bronchitis/Emphysema	7,261	2,108	3,055	1,523	575
Benign and unspecified neoplasms	2,829	42	1,744	658	385
Hemorrhoids	7,459	-	4,876	2,213	370
Thyroid/Goiter	3,304	-	1,062	1,466	777
Varicose Veins	5,953	-	2,116	2,414	1,423
Gout	1,826	-	488	663	676

*Numbers may not add up due to rounding.

TABLE 12
NUMBER OF CHRONIC CONDITIONS PER 1,000 FEMALES PER YEAR BY AGE, 1985

Selected Chronic Condition	All Ages	Under 17 Years	17-44 Years	45-64 Years	65 Years And Over
Heart Condition	22.4	2.5	13.3	33.8	113.9
Impairment of back or spine	46.4	5.5	55.5	66.9	84.3
Hypertension without heart involvement	76.1	0.7	24.9	192.2	334.1
Arthritis/Rheumatism	43.7	1.5	14.7	107.0	194.7
Hearing impairment	22.7	7.2	10.4	22.5	146.4
Asthma with or without hayfever	36.2	46.7	35.3	25.9	30.3
Diabetes	21.2	0.2	6.7	50.7	102.0
Mental and nervous condition	16.4	3.3	18.0	26.1	28.5
Visual impairment	12.2	0.2	3.6	16.2	92.7
Malignant neoplasms	7.5	0.3	2.8	15.1	40.1
Chronic and allergic skin conditions	42.3	39.3	47.5	38.4	33.2
Chronic sinusitis	29.5	10.8	41.2	31.1	23.5
Hayfever without asthma	72.2	48.1	88.1	77.2	47.9
Stomach ulcer	7.8	0.9	6.9	16.2	15.1
Bronchitis/Emphysema	14.3	15.3	13.4	15.2	14.3
Benign and unspecified neoplasms	5.6	0.3	7.7	6.6	9.6
Hemorrhoids	14.7	-	21.4	22.0	9.2
Thyroid/Goiter	6.5	-	4.7	14.6	19.3
Varicose Veins	11.8	-	9.3	24.0	35.3
Gout	3.6	-	2.1	6.6	16.8

TABLE 13
PREVALENCE OF SELECTED CHRONIC CONDITIONS BY ETHNICITY, 1985

Selected Chronic Condition	CAUCASIAN	JAPANESE	HAWAIIAN/ PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
Heart Condition	7,948	6,723	3,904	2,585	1,739	1,443
Impairment of back or spine	19,741	13,985	7,454	2,446	1,352	6,871
Hypertension without heart involvement	16,510	31,951	10,571	11,254	5,492	5,579
Arthritis/Rheumatism	13,255	9,874	3,164	3,297	1,742	2,859
Hearing impairment	12,334	11,344	6,136	2,189	1,913	2,603
Asthma with or without hayfever	10,720	6,269	10,296	3,628	1,300	6,363
Diabetes	4,185	8,052	3,022	2,586	1,747	1,610
Mental and nervous condition	5,925	3,441	2,523	1,283	661	2,920
Visual impairment	3,903	4,424	1,515	1,326	311	602
Malignant neoplasms	4,107	1,817	1,129	628	461	345
Chronic and allergic skin conditions	12,284	8,037	5,781	4,165	2,592	5,968
Chronic sinusitis	11,587	4,522	3,017	1,834	1,134	4,286
Hayfever without asthma	24,135	13,432	10,282	3,787	3,998	11,285
Stomach ulcer	2,805	2,401	1,180	1,513	371	1,193
Bronchitis/Emphysema	5,038	2,370	4,474	934	194	2,218
Benign and unspecified neoplasms	2,168	748	422	377	142	508
Hemorrhoids	6,255	2,822	1,709	638	690	2,156
Thyroid/Goiter	1,631	963	805	55	211	461
Varicose Veins	2,709	2,149	1,517	424	249	692
Gout	1,692	3,957	2,412	2,567	1,054	1,073

TABLE 14
NUMBER OF CHRONIC CONDITIONS PER 1,000 PERSONS PER YEAR BY ETHNICITY, 1985

Selected Chronic Condition	CAUCASIAN	JAPANESE	HAWAIIAN/ PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
Heart Condition	29.0	28.9	22.3	22.9	37.8	8.3
Impairment of back or spine	71.3	60.1	42.6	21.7	29.4	39.4
Hypertension without heart involvement	60.2	137.4	60.5	99.8	119.3	32.0
Arthritis/Rheumatism	48.3	42.5	18.1	29.2	37.8	16.4
Hearing impairment	44.9	48.8	35.1	19.4	41.5	14.9
Asthma with or without hayfever	39.1	27.0	58.9	32.2	28.2	36.4
Diabetes	15.3	34.6	17.3	22.9	37.9	9.2
Mental and nervous condition	21.6	14.8	14.4	11.4	14.4	16.7
Visual impairment	14.2	19.0	8.7	11.8	6.8	3.4
Malignant neoplasms	15.0	7.8	6.5	5.6	10.0	2.0
Chronic and allergic skin conditions	44.8	34.6	33.1	36.9	56.3	34.2
Chronic sinusitis	42.2	19.4	17.3	16.3	24.6	24.5
Hayfever without asthma	87.9	57.8	58.8	33.6	86.8	64.6
Stomach ulcer	10.2	10.3	6.8	13.4	8.1	6.8
Bronchitis/Emphysema	18.4	10.2	25.6	8.3	4.2	12.7
Benign and unspecified neoplasms	7.9	3.2	2.4	3.4	3.1	2.9
Hemorrhoids	22.8	12.1	9.8	5.7	15.0	12.4
Thyroid/Goiter	5.9	4.1	4.6	0.5	4.6	2.6
Varicose Veins	9.9	9.2	8.7	3.8	5.4	4.0
Gout	6.2	17.0	13.8	22.8	22.9	6.1

TABLE 15
NUMBER OF CHRONIC CONDITIONS PER 1,000 PERSONS PER YEAR (1980-1985)

	1980	1981	1982	1983	1984*	1985
Heart Condition	20.1	21.1	23.2	22.4	24.2	24.0
Impairment of back or spine	32.4	50.2	46.7	54.0	56.5	51.1
Hypertension without heart involvement	75.6	67.4	70.7	73.4	82.3	80.1
Arthritis/Rheumatism	27.8	26.7	30.7	30.8	34.7	33.7
Hearing impairment	26.2	32.1	31.5	30.6	35.0	36.0
Asthma with or without hayfever	29.8	30.1	37.1	34.1	37.9	38.0
Diabetes	23.0	18.9	19.4	20.7	22.8	20.9
Mental and nervous condition	9.4	13.3	17.7	11.4	13.0	16.5
Visual impairment	12.3	12.3	12.6	11.5	12.9	11.9
Malignant neoplasms	5.9	6.5	6.3	7.9	8.1	8.4
Chronic and allergic skin conditions	18.8	25.8	30.1	33.3	38.3	38.2
Chronic sinusitis	20.6	34.8	29.0	24.4	17.9	26.0
Hayfever without asthma	54.1	50.1	47.9	52.2	62.8	65.9
Stomach ulcer	8.1	9.5	6.5	6.3	7.8	9.3
Bronchitis/Emphysema	10.4	14.0	16.2	11.4	15.1	15.0
Benign and unspecified neoplasms	5.9	6.6	6.8	4.6	4.4	4.3
Hemorrhoids	15.1	17.0	17.7	11.6	14.8	14.1
Thyroid/Goiter	5.8	5.7	5.7	2.7	3.8	4.1
Varicose Veins	3.6	7.6	11.5	8.5	8.6	7.6
Gout	10.7	10.3	10.5	8.7	12.4	12.6

Excludes military housing population.

TABLE 16
DISTRIBUTION OF PERSONS BY ACTIVITY LIMITATION STATUS
DUE TO CHRONIC CONDITIONS ACCORDING TO SEX AND AGE, 1985 a/, b/, c/

BOTH SEXES	*TOTAL* b/ *POPULATION*	*NO LIMITATION OF ACTIVITY*	*LIMITED BUT NOT IN MAJOR ACTIVITY*	*LIMITED IN AMOUNT OR KIND OF ACTIVITY*	*UNABLE TO CARRY ON MAJOR ACTIVITY*
ALL AGES	388,072	337,049	23,927	18,257	8,839
UNDER 17 YEARS	58,403	54,121	2,213	1,719	351
17 - 44 YEARS	156,852	141,856	8,004	5,672	1,320
45 - 64 YEARS	109,797	95,388	7,072	4,859	2,478
65 YEARS AND OVER	63,021	45,685	6,639	6,007	4,690
MALE					
ALL AGES	196,345	169,281	12,838	8,608	5,619
UNDER 17 YEARS	32,123	29,859	1,466	447	351
17 - 44 YEARS	76,549	68,317	4,433	3,077	723
45 - 64 YEARS	54,378	46,924	3,105	2,272	2,078
65 YEARS AND OVER	33,295	24,181	3,834	2,812	2,468
FEMALE					
ALL AGES	191,727	167,768	11,090	9,649	3,220
UNDER 17 YEARS	26,280	24,262	747	1,272	-
17 - 44 YEARS	80,303	73,540	3,571	2,595	597
45 - 64 YEARS	55,419	48,463	3,967	2,588	401
65 YEARS AND OVER	29,726	21,504	2,805	3,195	2,222
	PERCENT DISTRIBUTION c/				
BOTH SEXES					
ALL AGES	100.00	86.9	6.2	4.7	2.3
UNDER 17 YEARS	100.00	92.7	3.8	2.9	0.6
17 - 44 YEARS	100.00	90.4	5.1	3.6	0.8
45 - 64 YEARS	100.00	86.9	6.4	4.4	2.3
65 YEARS AND OVER	100.00	72.5	10.5	9.5	7.4
MALE					
ALL AGES	100.00	86.2	6.5	4.4	2.9
UNDER 17 YEARS	100.00	93.0	4.6	1.4	1.1
17 - 44 YEARS	100.00	89.2	5.8	4.0	0.9
45 - 64 YEARS	100.00	86.3	5.7	4.2	3.8
65 YEARS AND OVER	100.00	72.6	11.5	8.4	7.4
FEMALE					
ALL AGES	100.00	87.5	5.8	5.0	1.7
UNDER 17 YEARS	100.00	92.3	2.8	4.8	-
17 - 44 YEARS	100.00	91.6	4.4	3.2	0.7
45 - 64 YEARS	100.00	87.4	7.2	4.7	0.7
65 YEARS AND OVER	100.00	72.3	9.4	10.7	7.5

a/ Numbers may not add up due to rounding.
b/ Includes unknown activity limitation.
c/ Percentage differences accounts for unknown activity limitation.

TABLE 17
DISTRIBUTION OF PERSONS BY ACTIVITY LIMITATION STATUS
DUE TO CHRONIC CONDITIONS ACCORDING TO FAMILY INCOME AND AGE, 1985 a/, b/, c/

ALL INCOMES	*TOTAL POPULATION*	*NO LIMITATION OF ACTIVITY*	*LIMITED BUT NOT IN MAJOR ACTIVITY*	*LIMITED IN AMOUNT OR KIND OF ACTIVITY*	*UNABLE TO CARRY ON MAJOR ACTIVITY*
ALL AGES	388,072	337,049	23,927	18,257	8,839
UNDER 17 YEARS	58,403	54,121	2,213	1,719	351
17 - 44 YEARS	156,852	141,856	8,004	5,672	1,320
45 - 64 YEARS	109,797	95,388	7,072	4,859	2,478
65 YEARS AND OVER	63,021	45,685	6,639	6,007	4,690
UNDER $5,000					
ALL AGES	5,761	3,536	604	959	662
UNDER 17 YEARS	549	549	-	-	-
17 - 44 YEARS	2,365	1,551	311	418	86
45 - 64 YEARS	1,343	554	158	385	246
65 YEARS AND OVER	1,505	882	135	157	331
$5,000 - $9,999					
ALL AGES	23,574	19,031	2,088	1,756	699
UNDER 17 YEARS	3,191	3,118	43	31	-
17 - 44 YEARS	8,616	7,401	836	341	37
45 - 64 YEARS	3,799	2,300	482	733	284
65 YEARS AND OVER	7,968	6,211	727	652	378
$10,000 - $14,999					
ALL AGES	34,017	28,206	2,173	2,178	1,461
UNDER 17 YEARS	4,701	4,328	235	138	-
17 - 44 YEARS	14,579	12,874	624	957	125
45 - 64 YEARS	6,884	5,116	750	545	473
65 YEARS AND OVER	7,853	5,888	564	538	863
$15,000 - $19,999					
ALL AGES	31,595	27,913	1,786	1,274	622
UNDER 17 YEARS	5,706	5,207	47	354	97
17 - 44 YEARS	14,354	13,302	688	211	153
45 - 64 YEARS	6,363	5,571	401	306	85
65 YEARS AND OVER	5,172	3,832	650	403	287
$20,000 - $24,999					
ALL AGES	41,379	36,204	2,862	1,442	872
UNDER 17 YEARS	7,677	7,048	501	128	-
17 - 44 YEARS	17,141	15,853	852	283	153
45 - 64 YEARS	9,829	8,861	324	403	241
65 YEARS AND OVER	6,732	4,442	1,184	628	478
$25,000 AND OVER					
ALL AGES	207,005	185,828	11,134	7,139	2,904
UNDER 17 YEARS	31,180	29,306	959	661	254
17 - 44 YEARS	83,819	77,064	3,609	2,603	543
45 - 64 YEARS	69,148	62,569	4,251	1,642	686
65 YEARS AND OVER	22,857	16,888	2,314	2,233	1,421

a/ Numbers may not add up due to rounding.
b/ Includes unknown activity limitation.
c/ Persons reporting unknown family income are excluded from table.

TABLE 18
PERCENT DISTRIBUTION OF PERSONS BY ACTIVITY LIMITATION STATUS
DUE TO CHRONIC CONDITIONS ACCORDING TO FAMILY INCOME AND AGE, 1985*

ALL INCOMES	*TOTAL POPULATION*	*NO LIMITATION OF ACTIVITY*	*LIMITED BUT NOT IN MAJOR ACTIVITY*	*LIMITED IN AMOUNT OR KIND OF ACTIVITY*	*UNABLE TO CARRY ON MAJOR ACTIVITY*
ALL AGES	100.00	86.9	6.2	4.7	2.3
UNDER 17 YEARS	100.00	92.7	3.8	2.9	0.6
17 - 44 YEARS	100.00	90.4	5.1	3.6	0.8
45 - 64 YEARS	100.00	86.9	6.4	4.4	2.3
65 YEARS AND OVER	100.00	72.5	10.5	9.5	7.4
UNDER $5,000					
ALL AGES	100.00	61.4	10.5	16.7	11.5
UNDER 17 YEARS	100.00	100.0	-	-	-
17 - 44 YEARS	100.00	65.6	13.1	17.7	3.6
45 - 64 YEARS	100.00	41.3	11.8	28.7	18.3
65 YEARS AND OVER	100.00	58.6	9.0	10.4	22.0
$5,000 - $9,999					
ALL AGES	100.00	80.7	8.9	7.4	3.0
UNDER 17 YEARS	100.00	97.7	1.3	1.0	-
17 - 44 YEARS	100.00	85.9	9.7	4.0	0.4
45 - 64 YEARS	100.00	60.5	12.7	19.3	7.5
65 YEARS AND OVER	100.00	78.0	9.1	8.2	4.7
$10,000 - $14,999					
ALL AGES	100.00	82.9	6.4	6.4	4.3
UNDER 17 YEARS	100.00	92.1	5.0	2.9	-
17 - 44 YEARS	100.00	88.3	4.3	6.6	0.9
45 - 64 YEARS	100.00	74.3	10.9	7.9	6.9
65 YEARS AND OVER	100.00	75.0	7.2	6.8	11.0
$15,000 - $19,999					
ALL AGES	100.00	88.3	5.7	4.0	2.0
UNDER 17 YEARS	100.00	91.3	0.8	6.2	1.7
17 - 44 YEARS	100.00	92.7	4.8	1.5	1.1
45 - 64 YEARS	100.00	87.6	6.3	4.8	1.3
65 YEARS AND OVER	100.00	74.1	12.6	7.8	5.5
$20,000 - $24,999					
ALL AGES	100.00	87.5	6.9	3.5	2.1
UNDER 17 YEARS	100.00	91.8	6.5	1.7	-
17 - 44 YEARS	100.00	92.5	5.0	1.6	0.9
45 - 64 YEARS	100.00	90.2	3.3	4.1	2.4
65 YEARS AND OVER	100.00	66.0	17.6	9.3	7.1
$25,000 AND OVER					
ALL AGES	100.00	89.8	5.4	3.4	1.4
UNDER 17 YEARS	100.00	94.0	3.1	2.1	0.8
17 - 44 YEARS	100.00	91.9	4.3	3.1	0.6
45 - 64 YEARS	100.00	90.5	6.1	2.4	1.0
65 YEARS AND OVER	100.00	73.9	10.1	9.8	6.2

* Percentage difference accounts for unknown activity limitation.

TABLE 19
INCIDENCE OF ACUTE CONDITIONS PER YEAR BY GEOGRAPHIC AREA, 1985*

	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
ALL ACUTE CONDITIONS	2,498,748	1,920,895	591,850	135,618	762,229	109,400	321,798	130,578	193,870	253,404
INFECTIVE PARASITIC DISEASES	119,804	106,002	25,208	10,132	54,139	5,772	10,751	3,888	5,448	4,466
RESPIRATORY CONDITIONS	1,888,518	1,447,854	474,164	95,106	553,981	86,400	238,202	95,504	147,082	198,078
DIGESTIVE SYSTEM CONDITIONS	48,062	36,250	8,400	-	15,175	6,181	6,493	2,341	5,336	4,135
INJURIES	198,540	144,610	33,341	16,277	70,632	3,157	21,203	11,370	16,662	25,898
ALL OTHER ACUTE CONDITIONS	243,823	186,180	50,736	14,104	68,302	7,890	45,149	17,474	19,343	20,826

*Numbers may not add up due to rounding.

TABLE 20
NUMBER OF ACUTE CONDITIONS PER 100 PERSONS PER YEAR BY GEOGRAPHIC AREA, 1985

	STATE	OAHU	EAST HON.	WEST HON.	CENTRAL OAHU	WAIANAE	WIND-WARD	KAUAI	MAUI COUNTY	HAWAII
ALL ACUTE CONDITIONS	246.1	247.9	245.3	156.1	263.3	328.9	259.4	289.2	225.9	231.6
INFECTIVE PARASITIC DISEASES	11.8	13.7	10.5	11.7	18.7	17.4	8.7	8.6	6.4	4.1
RESPIRATORY CONDITIONS	186.0	186.8	196.5	109.5	191.4	259.8	192.0	211.5	171.4	181.0
DIGESTIVE SYSTEM CONDITIONS	4.7	4.7	3.5	-	5.2	18.6	5.2	5.2	6.2	3.8
INJURIES	19.6	18.7	13.8	18.7	24.4	9.5	17.1	25.2	19.4	23.7
ALL OTHER ACUTE CONDITIONS	24.0	24.0	21.0	16.2	23.6	23.7	36.4	38.7	22.5	19.0

TABLE 21
INCIDENCE OF ACUTE CONDITIONS IN THE PAST YEAR BY AGE, 1985*

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	2,498,748	970,369	1,059,811	342,017	126,551
Infective Parasitic Diseases	119,804	63,660	47,921	6,104	2,119
Respiratory Conditions	1,888,518	747,811	778,340	267,836	94,530
Digestive System Conditions	48,062	9,529	22,697	10,745	5,092
Injuries	198,540	49,879	100,585	33,929	14,147
All Other Acute Conditions	243,823	99,490	110,268	23,402	10,663

*Numbers may not add up due to rounding.

TABLE 22
NUMBER OF ACUTE CONDITIONS PER 100 PERSONS PER YEAR BY AGE, 1985

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	246.1	339.6	233.9	176.5	153.0
Infective Parasitic Diseases	11.8	22.3	10.6	3.2	2.6
Respiratory Conditions	186.0	261.7	171.8	138.3	114.3
Digestive System Conditions	4.7	3.3	5.0	5.6	6.2
Injuries	19.6	17.5	22.2	17.5	17.1
All Other Acute Conditions	24.0	34.8	24.3	12.1	12.9

TABLE 23
INCIDENCE OF ACUTE CONDITIONS FOR MALES IN THE PAST YEAR BY AGE, 1985*

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	1,234,008	534,343	477,637	154,524	67,504
Infective Parasitic Diseases	56,220	36,101	17,215	1,772	1,132
Respiratory Conditions	934,957	403,318	358,210	124,122	49,308
Digestive System Conditions	22,818	1,692	12,965	3,878	4,283
Injuries	123,460	33,442	66,662	15,226	8,130
All Other Acute Conditions	96,553	59,791	22,585	9,526	4,651

*Numbers may not add up due to rounding.

TABLE 24
NUMBER OF ACUTE CONDITIONS PER 100 MALES PER YEAR BY AGE, 1985

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	242.5	362.2	211.7	165.7	159.1
Infective Parasitic Diseases	11.1	24.5	7.6	1.9	2.7
Respiratory Conditions	183.8	273.4	158.8	133.1	116.2
Digestive System Conditions	4.5	1.2	5.8	4.2	10.1
Injuries	24.3	22.7	29.5	16.3	19.2
All Other Acute Conditions	19.0	40.5	10.0	10.2	11.0

TABLE 25
INCIDENCE OF ACUTE CONDITIONS FOR FEMALES IN THE PAST YEAR BY AGE, 1985*

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	1,264,740	436,026	582,174	187,493	59,047
Infective Parasitic Diseases	63,584	27,559	30,706	4,332	988
Respiratory Conditions	953,561	344,494	420,131	143,714	45,222
Digestive System Conditions	25,244	7,837	9,732	6,866	809
Injuries	75,080	16,438	33,923	18,703	6,017
All Other Acute Conditions	147,270	39,698	87,683	13,877	6,012

*Numbers may not add up due to rounding.

TABLE 26
NUMBER OF ACUTE CONDITIONS PER 100 FEMALES PER YEAR BY AGE, 1985

	ALL AGES	UNDER 17 YEARS	17 - 44 YEARS	45 - 64 YEARS	65 YEARS AND OVER
All Acute Conditions	249.7	315.5	255.9	186.6	146.7
Infective Parasitic Diseases	12.6	19.9	13.5	4.3	2.5
Respiratory Conditions	188.3	249.3	184.7	143.0	112.3
Digestive System Conditions	5.0	5.7	4.3	6.8	2.0
Injuries	14.8	11.9	14.9	18.6	15.0
All Other Acute Conditions	29.1	28.7	38.5	13.8	14.9

TABLE 27
INCIDENCE OF ACUTE CONDITIONS IN THE PAST YEAR BY ETHNICITY, 1985

	CAUCASIAN	JAPANESE	HAWAIIAN PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
All Acute Conditions	707,646	405,383	549,756	221,063	76,451	538,450
Infective Parasitic Diseases	59,870	8,656	26,194	6,145	834	18,106
Respiratory Conditions	479,874	326,788	437,580	172,892	66,856	404,528
Digestive System Conditions	17,960	7,190	4,056	4,688	2,048	12,119
Injuries	66,850	29,911	36,361	14,680	4,081	46,657
All Other Acute Conditions	83,092	32,838	45,565	22,657	2,632	57,040

TABLE 28
NUMBER OF ACUTE CONDITIONS PER 100 PERSONS PER YEAR BY ETHNICITY, 1985

	CAUCASIAN	JAPANESE	HAWAIIAN PT. HAWAIIAN	FILIPINO	CHINESE	OTHER & UNKNOWN
All Acute Conditions	257.8	174.3	314.5	196.0	166.0	308.4
Infective Parasitic Diseases	21.8	3.7	15.0	5.5	1.8	10.4
Respiratory Conditions	174.9	140.5	250.3	153.3	145.2	231.7
Digestive System Conditions	6.5	3.1	2.3	4.2	4.5	6.9
Injuries	24.4	12.9	20.8	13.0	8.9	26.7
All Other Acute Conditions	30.3	14.1	26.1	20.1	5.7	32.7

TABLE 29
NUMBER OF ACUTE CONDITIONS PER 100
PERSONS PER YEAR (1980-1985)

	1980	1981	1982	1983	1984*	1985
All Acute Conditions	168.8	204.8	224.0	208.6	226.7	246.1
Infective Parasitic Diseases	10.2	16.9	15.4	10.1	8.8	11.8
Respiratory Conditions	114.0	141.4	156.3	154.1	171.0	186.0
Digestive System Conditions	3.2	3.7	3.3	3.9	3.9	4.7
Injuries	21.1	18.2	21.2	17.4	18.2	19.6
All Other Acute Conditions	20.3	24.5	27.9	23.1	24.7	24.0

Excludes the military housing population.

TABLE 30
NUMBER OF RESTRICTED DAYS FOR PERSONS IN THE PAST 12 MONTHS
BY GEOGRAPHIC AREA AND AGE, 1985*

	All Ages	Under 17	17-44 Years	45-64 Years	65 & Over
State	14,075,272	3,001,375	5,945,620	3,030,487	2,097,791
Oahu	10,473,006	2,246,296	4,540,832	2,212,057	1,473,821
East Honolulu	3,145,140	383,179	1,358,671	758,944	644,346
West Honolulu	810,601	136,056	232,730	280,790	161,024
Central Oahu	3,398,056	998,626	1,486,540	580,058	332,832
Waianae	1,252,342	437,760	452,146	199,160	163,276
Windward	1,866,868	290,675	1,010,746	393,104	172,343
Kauai	393,722	53,314	179,568	65,878	94,963
Maui County	1,805,188	359,698	775,939	399,913	269,638
Hawaii	1,403,357	342,068	449,280	352,639	259,369

*Numbers may not add up due to rounding.

TABLE 31
AVERAGE NUMBER OF RESTRICTED DAYS PER PERSON PER YEAR
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1985

	All Ages	Under 17	17-44 Years	45-64 Years	65 & Over
State	13.9	10.5	13.1	15.7	25.4
Oahu	13.5	10.4	12.8	15.2	25.5
East Honolulu	13.0	9.0	12.1	12.9	23.7
West Honolulu	9.3	5.7	7.0	14.9	15.1
Central Oahu	11.7	10.3	10.6	14.2	28.3
Waianae	37.7	34.4	32.4	41.2	95.7
Windward	15.1	7.4	18.1	17.7	27.0
Kauai	8.7	4.1	10.2	7.2	18.4
Maui County	21.0	14.8	21.6	23.7	31.4
Hawaii	12.8	10.4	10.3	16.2	23.2

TABLE 32
NUMBER OF BED DAYS FOR PERSONS IN THE PAST 12 MONTHS
BY GEOGRAPHIC AREA AND AGE, 1985*

	All Ages	Under 17	17-44 Years	45-64 Years	65 & Over
State	5,078,905	1,385,143	1,881,278	1,068,005	744,479
Oahu	3,688,619	963,786	1,492,422	777,116	455,294
East Honolulu	912,982	134,015	444,188	254,898	79,880
West Honolulu	235,210	61,442	44,657	104,056	25,055
Central Oahu	1,462,898	451,720	565,781	224,195	221,203
Waianae	547,190	227,063	161,329	81,460	77,339
Windward	530,339	89,546	276,467	112,508	51,817
Kauai	156,958	21,391	59,842	26,075	49,650
Maui County	413,671	91,405	122,723	113,609	85,934
Hawaii	819,658	308,561	206,292	151,205	153,600

*Numbers may not add up due to rounding.

TABLE 33
AVERAGE NUMBER OF BED DAYS PER PERSON PER YEAR
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1985

	All Ages	Under 17	17-44 Years	45-64 Years	65 & Over
State	5.0	4.9	4.2	5.5	9.0
Oahu	4.8	4.5	4.2	5.3	7.9
East Honolulu	3.8	3.2	4.0	4.3	2.9
West Honolulu	2.7	2.6	1.4	5.5	2.4
Central Oahu	5.6	4.7	4.0	5.5	18.8
Waianae	16.5	17.8	11.5	16.9	45.4
Windward	4.3	2.3	4.9	5.1	8.1
Kauai	3.5	1.6	3.4	2.9	9.6
Maui County	4.8	3.8	3.4	6.7	10.0
Hawaii	7.5	9.4	4.8	7.0	13.7

TABLE 34
TOTAL NUMBER AND AVERAGE SCHOOL DAYS LOST PER PERSON 6-16 YEARS OF AGE
IN THE PAST 12 MONTHS BY GEOGRAPHIC AREA AND AGE, 1985*

	TOTAL	AVERAGE
State	787,256	4.3
Oahu	537,160	3.9
East Honolulu	112,348	4.0
West Honolulu	46,961	3.0
Central Oahu	221,448	3.6
Waianae	53,792	6.6
Windward	102,611	3.9
Kauai	25,519	3.1
Maui County	78,493	5.1
Hawaii	146,084	6.8

*Numbers may not add up due to rounding.

HEALTH PROMOTION AND EDUCATION OFFICE

HEALTH PROMOTION AND EDUCATION OFFICE

Federal funds were awarded the Hawaii State Department of Health's Health Promotion and Education Office to develop and implement a new initiative in health promotion and disease prevention. A primary objective of the five year Health Education-Risk Reduction Project was the completion of a survey designed to gather and evaluate information on behavior risk factors within Hawaii's population. The survey covered seven major behavioral risk factors affecting health status.

1. Seat Belt Use
2. Hypertension
3. Exercise
4. Nutrition and Weight
5. Cigarette Smoking
6. Alcohol use and Abuse
7. Drinking and Driving

These risk factors contribute to and increase a person's risk of injury or illness, especially chronic illness. The purpose of the Hawaii survey was to determine the prevalence of these risk factors among the state's adult population. By developing a profile of behavioral risks in Hawaii's resident population, an assessment can be made as to which areas need more attention, a baseline can be drawn and, with the passage of time, trends can be recognized.

The Hawaii sample was comprised of all residents, excluding those institutionalized and on-base military personnel over the age of 18 years. A sample of 1,002 was selected to provide a statistically significant number of completed interviews, in relation to Hawaii's total population of approximately one million persons. This sample has been structured so that significant statements can be made about the health behavioral risk factors in the state's population. The sample also meets acceptable limits in sampling error for both the demographic structures of the population and the range of questions addressed.

The sample was distributed proportionally among four counties: Hawaii, Kauai, Maui and the City and County of Honolulu, encompassing the islands of Hawaii, Kauai, Maui, Molokai and Lanai grouped together, and Oahu. The island of Niihau lacks telephone service; therefore, its population of approximately 200 Hawaiians and part-Hawaiians were not included in the survey. From the 1,002 projected interviews, 522 were allocated to Oahu and 120 each to Hawaii, Kauai, Maui, and Molokai-Lanai. One can say with 95% confidence that the error attributable to sampling and other random effects could be 4% in either direction. In addition to sampling error, the reader should bear in mind that question wording and other practical difficulties encountered in conducting surveys can introduce error or bias into the findings.

The ramdom digit dialing (RDD) technique provides for a random pattern of selection from the estimated 94% of Hawaii households with telephones. Using this technique, all households having telephones have an equal prospect for selection. The number of potential respondents is increased somewhat when considering that it is common in Hawaii to have more than one family living in a single dwelling. The RDD method excludes, however, approximately 6% of Hawaii households without telephones. This may result in an under-representation of responses from low-income individuals less likely to have telephones.

The 46-question survey was developed by the Center for Health Promotion and Education at the Centers for Disease Control in Atlanta, Georgia. The Hawaii State Health Education-Risk Reduction (HERR) Project agreed to adopt the national standard format of the questionnaire so as to obtain comparative data from other states. Changes in the survey format were made in the section on demographic data. Questions on race, education, marital status, and income were adapted to better represent characteristics of the Hawaii population. The questionnaire took a respondent approximately 11-12 minutes to complete.

TABLE 1

MAJOR CAUSES OF DEATH AND ASSOCIATED CONTROLLABLE RISK FACTORS FOR HAWAII RESIDENTS

Major Causes of Death in Hawaii 1985			
Cause	Number of deaths	Percent of all deaths	Risk Factor
Heart and Circulatory Disease	1860	32.3	Smoking[1], hypertension[1], elevated serum cholesterol[1] (diet), lack of exercise, diabetes, stress, family history
Malignant Neoplasm	1421	24.7	Smoking[1], worksite carcinogens, alcohol, diet, environmental carcinogens, solar radiation, ionizing agents, infectitious agents, medications
Cerebrovascular Disease	430	7.5	Hypertension[1], smoking[1], elevated serum cholesterol[1], stress
Pneumonia and Influenza	254	4.4	Smoking, vaccination status[1],
Diabetes	138	2.4	Obesity[1]
Motor Vehicle Accident	127	2.2	Alcohol[1], no seatbelts[1], speed[1], roadway design, vehicle engineering
Suicide	95	1.7	Stress[1], alcohol and drug abuse, and gun availability
Accidents other than motor vehicle	108	1.9	Alcohol[1], drug abuse, smoking (fires), product design, home hazards, handgun availability
Congenital Abnormalities	55	1.0	Maternal age, radiation, drugs[1], alcohol[1], smoking[1], infectious agents, lack of prenatal diagnosis
Perinatal Conditions	77	1.3	Maternal age and weight, smoking[1], drugs[1], alcohol[1], lack of prenatal care, short pregnancy interval, nutrition[1]
Chronic Liver Disease and cirrhosis	78	1.4	Alcohol abuse[1]
All other causes	1108	19.2	
Total resident deaths	5751	100.0	

Source: Research and Statistics Office
Hawaii State Department of Health
1984 Annual Report

[1]Major Risk Factors

TABLE 2

ADULT RESIDENT POPULATIONAT RISK BY RISK FACTORS AND BY ISLAND *

STATE OF HAWAII, 1984

RISK FACTORS

ISLAND	Inadequate Seatbelt Usage	Hyper-tension	Inadequate Exercise	Diet Factor	Smoking	Acute Drinking	Chronic Drinking	Drinking & Driving
Hawaii	52%	20%	40%	21%	27%	18%	15%	4%
Kauai	54	12	43	19	25	23	14	9
Maui	56	20	29	17	38	37	26	17
Molokai & Lanai	64	23	34	25	23	20	17	11
Oahu	37	17	40	16	24	22	12	5
State	41	18	38	16	26	22	13	6

*Adult Population - Persons over the age of 18 years excluding those intitutionalized and "on-base" milirary personnel

Total Sample Size - 1,002 which represents 665,456 estimated # of adult residents statewide
This survey was conducted May - July 1984.

TABLE 3

ADULT RESIDENT POPULATION AT RISK BY RISK FACTORS AND BY SELECTED DEMOGRAPHIC CHARACTERISTICS *

STATE OF HAWAII, 1984

RISK FACTORS

Demographic Characteristic	Inadequate Seatbelt Use	Hyper-tension	Inadequate Exercise	Diet Factors	Smoking	Acute Drinking	Chronic Drinking	Drinking/ Driving
Age								
18 - 34	38%	7%	37%	13%	27%	29%	16%	9%
35 - 54	39	16	43	19	29	19	13	5
55+	46	38	36	17	17	12	8	2
Sex								
Male	38	18	38	18	30	32	22	10
Female	44	18	38	14	22	12	6	2
Education								
No College	48	27	40	18	34	27	16	8
Some College	34	11	37	14	20	18	11	4
Income in Family								
<$25,000	40	18	38	20	28	26	12	8
$25,000+	46	19	35	14	27	22	16	5
not sure/refused	33	17	47	8	17	17	8	0
Marital Status								
Married inc. common law	38	22	39	26	25	20	17	5
Previously married	50	25	44	8	33	17	13	8
Never married	44	4	33	9	26	30	3	9

*Adult Population - Persons over the age of 18 years excluding those institutionalized and "on-base" military personnel

Total Sample Size - 1,002 which represents 665,456 estimated # of adult residents statewide
This survey was conducted May - July 1984.

TABLE 4

ADULT RESIDENT POPULATION AT RISK BY
RISK FACTORS AND BY ETHNIC GROUP*

STATE OF HAWAII, 1984

RISK FACTORS

ETHNIC GROUP	Total Population	Inadequate Seatbelt Use	Hyper-tension	Inadequate Exercise	Poor Dietary Factors	Smoking	Acute Drinking	Chronic Drinking	Drinking/ Driving
Caucasian	192,264	38%	10%	33%	14%	28%	24%	17%	3%
Hawaiian	98,290	53	20	32	33	27	40	20	13
Chinese	44,464	29	29	37	0	1	14	9	6
Filipino	101,281	33	13	48	13	27	20	7	7
Japanese	175,662	50	31	46	15	23	19	12	4
Other	53,495	25	13	34	25	38	25	13	5

*Adult Population - Persons over the age of 18 years excluding those institutionalized and "on-base" military personnel

Total Sample Sized - 1,002 which represnts 665,456 estimated # of adult residents statewide
This survey was conducted May - July 1984.

HAWAII STATE HEALTH PLANNING AND DEVELOPMENT AGENCY

HAWAII STATE HEALTH PLANNING AND DEVELOPMENT AGENCY

Annual Summary of Acute, Long Term Care and Specialty Hospital Utilization by County, 1980 - 1985

Hawaii's State Health Planning and Development Agency (SHPDA) is an agency of state government, administratively attached to the State Department of Health. The Agency (SHPDA) works with the Hawaii Statewide Health Coordinating Council (HSHCC) and the seven Subarea Health Planning Councils (SACs) throughout the State. Authorized by the National Health Planning and Resources Development Act, the Agency was established in July, 1976 after amendments to Chapter 323D, Hawaii Revised Statutes. The Hawaii State Legislature appropriates funds for the Agency, to match Federal funds provided by the Department of Health and Human Services.

One of the responsibilities of the Agency is to draft a state health plan. The Agency also staffs HSHCC and the seven SACs, and promotes the implementation of the Health Services and Facilities Plan. The goals of the Agency's planning and development activities are:

1. Improve the health of the residents of the State.
2. Increase the accessibility, acceptability, availability, continuity and quality of health services provided them.
3. Contain increases in the cost of providing health services.
4. Prevent the unnecessary duplication of health resources.

The Agency collects information on the utilization of inpatient facilities in the State and prepares an annual summary. The data in this report were obtained by SHPDA directly from each of the inpatient facilities in the State. In 1979, SHPDA initiated a Quarterly Utilization Report which included daily census data from each facility for each type of bed. The 1980-85 facility data are complete, as reported to the Agency.

Admissions

The number of admissions is defined as the number of inpatient admissions. A given person could be admitted more than once during a year. The critical care admissions are included in the categories shown. Data on the use rate of critical care beds are available at SHPDA.

The number of admissions multiplied by the average length of stay produces the total number of patient days.

Average Daily Census (ADC)

The average daily census provides the mean number of beds occupied during the year. The average daily census multiplied by 365 gives the total number of patient days per year. The average daily census divided by the bed capacity and multiplied by 100 gives the occupancy rate.

Occupancy Rates

As mentioned above, percentage occupancy can be computed by dividing the ADC by the number of licensed beds and multiplying by 100. This provides an idea of the proportion of bed capacity occupied on the average day. As with ADC, this will fluctuate from day to day and by type of bed and place. There

Annual Summary of Acute, Long Term Care and Specialty Hospital Utilization by County, 1980 - 1985 (Continued)

are national standards which are felt to indicate optimal bed occupancy levels. If a hospital's occupany is too high, it may not have adequate capacity to accept new patient-. Also, some extra beds are always needed in order to allow for maintenance, etc. Usually, high occupancy in long term care beds is more acceptable, i.e., above 95%, since there is less daily fluctuation in daily census. In acute care, particularly where patients are admitted on a non-scheduled basis, e.g., OB, CCU, etc., the optimal occupancy can be lower in order to permit unforeseen admissions. For other types of acute beds, an occupany of about 80-85% is acceptable because admissions can be scheduled if bed capacity is fully utilized on a given day.

In some instances, occupancy may run over 100% because of an overflow situation. This might occur if there are, for example, too many of a given type of patient who must be temporarily assigned to another bed type. Where occupancy rates are very high, this is an indication of an inadequate supply of that type of bed on a given island; where they are low, it is an indication of either an adequate supply or surplus of that type of bed on that island.

Average Length of Stay (ALOS)

The average length of stay is the average number of days patients remain in the facility per hospital stay. For acute care, this is computed by dividing the total patient days by the number of admissions. For long term care, this is computed dividing the patient days by the number of discharges. This is done because long term care patients may remain in a facility for several years.

Length of stay can be thought of as an indicator of either efficiency or seriousness of patient's illness. Where facilities are able to discharge patients in a shorter time, they might be thought of as being more efficient. However, in some instance whwere patients remain out of a hospital until their condition is more serious or where outpatient care is encouraged for less serious conditions, patients admitted may be required to stay longer.

In addition, in the event that long term care patients are occupying acute beds because they cannot find long term accommodations, this may tend to increase the acute length of stay--confusing the interpretation. It would be best if, when computing length of stay, waitlisted long term care patients could be omitted from the acute inpatient care data. This has not been done in these data.

TABLE 1
SHPDA RECOGNIZED ACUTE CARE BED CAPACITY
STATE OF HAWAII, 1986

	Medical/ Surgical	Critical Care[a]	Obstetric	Pediatric	Neonatal ICU[c]	Neonatal Psych	Total
METROPOLITAN							
Kaiser	105	20	31	18	2	-	176
Kapiolani	68	22[b]	60	64	12	-	226
Kuakini	225	25	-	-	-	-	250
Queen's	404	27	25	-	-	50	506
St.Francis	230	22	-	4	-	-	256
Straub	136	23	-	-	-	-	159
Subtotal	1168	139	116	86	14	50	1573
SUBURBAN							
Castle	79	8	14	-	-	55	156
Kahuku	6	2	3	-	-	-	11
Wahiawa	50	5	14	-	-	-	69
Subtotal	135	15	31	-	-	55	236
OAHU TOTAL	1303	154	147	86	14	105	1809
MILITARY							
Tripler	387	-	41	17	-	64	509[d]
HAWAII COUNTY							
Hilo	84	12	18	30	-	21	165
Honokaa	19	2	4	2	-	-	27
Ka'u	4	1	2	-	-	-	7
Kohala	4	-	4	-	-	-	8
Kona	31	6	8	-	-	8	53
Subtotal	142	21	36	32	-	29	260
MAUI COUNTY							
Maui Island							
Hana	4	-	-	-	-	-	4
Kula	4	-	-	-	-	-	4
Maui	104	8	18	5	-	10	145
Lanai Island							
Lanai	3	1	1	-	-	1	6
Molokai Island							
Molokai	12	-	4	-	-	-	16
Subtotal	127	9	23	5	-	11	175
KAUAI COUNTY							
Mahelona	-	-	-	-	-	9	9
Kauai Vet.	18	2	7	-	-	-	27
G.N. Wilcox	64	8	9	-	-	-	81
Subtotal	82	10	16	-	-	9	117
W. I. TOTAL	351	40	75	37	-	49	552
STATE TOTAL W/O TRIPLER	1654	194	222	123	14	154	2361
STATE TOTAL W/ TRIPLER	2041	194	263	140	14	218	2870

a. Includes coronary and intensive care units
b. Includes 6 Ped ICU, 6 Ped Intermediate Care and 10 Perinatal intensive care (PICU)
c. neonatal isolettes
d. Tripler uses a total bed capacity of 561, which includes 52 nursery beds

SOURCE: SHPDA, April, 1986

TABLE 2
SHPDA RECOGNIZED LONG TERM CARE BED CAPACITY
STATE OF HAWAII, 1986

	Skilled Nursing	Intermediate	SNF/ICF	Acute/SNF Swing	Total
OAHU					
Ann Pearl	-	86	-	-	86
Arcadia	60	-	-	-	60
Beverly Manor	-	-	108	-	108
Convalescent Center	-	-	183	-	183
Crawford's	-	68	-	-	68
Hale Ho Aloha	-	73	-	-	73
Hale Malamalama	-	31	-	-	31
Hale Nani	-	-	232	-	232
Hawaii Select Care	-	-	92	-	92
Island Nursing	-	-	42	-	42
Kahanaola	-	-	42	-	42
Kahuku	11	-	-	4	15
Kuakini	50	100	-	-	150
Leahi	92	38	-	-	130
Leeward	-	50	-	-	50
Maluhia	-	-	158	-	158
Maunalani	101	-	-	-	101
Nuuanu Hale	75	-	-	-	75
St. Francis	52	-	-	-	52
Wahiawa	-	-	93	-	93
Total Oahu	441	446	950	4	1841
HAWAII COUNTY					
Life Care Center	-	240	-		240
Hilo Hospital	36	72	-	-	108
Honokaa	8	-	-	-	8
Ka'u	8	-	-	-	8
Kohala	2	16	-	-	18
Kona	-	-	22	-	22
Total Hawaii County	54	328	22	-	404
MAUI COUNTY					
Hale Makua	120	124	-	-	244
Kula	-	-	94	-	94
Lanai	-	-	8	-	8
Molokai	-	-	14	-	14
Total Maui County	120	124	116		360
KAUAI COUNTY					
Kauai Veterans	6	-	-	11	17
Mahelona	-	61	-	6	67
G. N. Wilcox	-	-	80	-	80
Total Kauai County	6	61	80	17	164
STATE TOTAL	621	959	1168	21	2769

SOURCE: SHPDA, April, 1986

Table 3
SHPDA RECOGNIZED SPECIALTY CARE BED CAPACITY
STATE OF HAWAII, 1986

	Psych	TB	MR	ICF/MR	SNF/MR	Leprosy	Rehab	Children's Ortho	M/S	Total
Hale Mohalu	-	-	-	-	-	21		-	-	21
Hawaii State	239*	-	-	-		-	-	-	-	239
Kahi Mohala	88	-	-	-		-	-		-	88
Kalaupapa	-	-	-	-	-	24	-		-	24
Kula	-	-	8	-	-	-	-		-	8
Leahi		21	-	-	-	-	-	-	5	26
Rehab. Hospital	-	-	-	-		-	100	-	-	100
Shriner's	-	-	-	-	-	-	-	40	-	40
Waimano		-	-	350	60	-	-		-	410
GRAND TOTAL	327	21	8	350	60	45	100	40	5	956

*Includes 20 ped. psych. beds

SOURCE: SHPDA, April, 1986

TABLE 4
AVERAGE LENGTH OF STAY BY COUNTIES

	1980	1981	1982	1983	1984	1985
LONG TERM CARE						
Oahu	362.8	390.5	387.8	409.2	452	412
Hawaii	239.8	304.3	336.6	233.2	274	287
Kauai	242.7	354.6	335.8	263.5	194	195
Tri-Isle	384.4	347.1	330.8	406.5	264	412
Maui	316.3	347.6	338.4	426.4	263	427
Molokai	409.2	263.0	203.3	213.7	195	260
Lanai	342.3	286.1	323.1	216.2	696	276
TOTAL ACUTE						
Oahu w/o Tripler	6.5	6.5	6.6	6.3	5.9	6.5
Hawaii	3.8	4.7	4.1	4.2	4.3	4.3
Kauai	5.2	4.7	5.5	4.6	4.4	4.4
Tri-Isle	4.8	4.9	4.9	4.9	4.7	4.7
Maui	4.9	4.8	5.1	3.5	4.9	4.8
Molokai	2.7	2.5	2.7	3.7	2.9	3.1
Lanai	2.3	4.9	2.9	4.2	4.3	2.9
MEDICAL-SURGICAL						
Oahu w/o Tripler	7.7	7.4	7.6	7.1	6.7	7.2
Hawaii	4.2	4.5	4.6	5.2	5.5	5.3
Kauai	6.6	7.4	7.8	6.0	5.3	5.2
Tri-Isle	5.7	5.6	6.0	5.9	5.7	5.6
Maui	5.8	5.7	6.1	6.0	5.9	5.8
Molokai	3.0	3.1	3.5	4.6	3.2	3.3
Lanai	2.5	2.5	3.0	5.3	4.9	3.1
CRITICAL CARE (ICU/CCU)						
Oahu w/o Tripler	3.8	-	7.2	7.7	5.0	5.8
Hawaii	2.8	3.2	2.9	2.7	2.6	2.5
Kauai	2.6	2.0	2.1	1.5	1.8	2.0
Tri-Isle	3.1	3.0	3.2	2.6	2.8	3.1
Maui	3.1	-	3.2	2.6	2.8	3.1
OBSTETRIC						
Oahu w/o Tripler	3.3	3.3	3.2	3.1	3.2	3.2
Hawaii	2.5	2.4	2.3	2.2	2.2	2.4
Kauai	2.5	2.5	2.6	2.0	2.4	2.5
Tri-Isle	2.2	2.1	2.0	2.0	2.0	1.9
Maui	2.2	2.2	2.1	2.1	2.0	1.9
Molokai	1.9	1.6	1.5	1.5	1.4	1.4
Lanai	2.0	-	1.3	1.4	2.1	2.1
PEDIATRIC						
Oahu w/o Tripler	3.9	3.9	3.9	3.8	3.9	3.9
Hawaii	3.0	2.9	2.8	2.8	2.7	2.7
Kauai	2.8	3.1	2.6	2.2	...	...
Tri-Isle	3.1	3.0	4.0	3.5	3.5	3.0
Maui	3.1	3.2	3.9	3.7	3.5	3.0
Molokai	2.9	1.3	1.0	1.8	...	...
PSYCHIATRIC						
Oahu w/o Tripler	11.4	10.0	11.4	10.0	11.9	12.3
Hawaii	7.8	8.1	9.1	7.8	6.3	6.0
Kauai	9.1	7.8	6.4	6.9	6.4	5.6
Tri-Isle	7.3	9.0	6.4	6.3	7.3	6.8
Maui	7.7	9.4	6.7	6.3	7.3	6.8
Molokai	1.6	1.0	1.3	...	...	...
MENTALLY RETARDED						
State	1449.1	1761.5	3372.9		2584.7	2437
SPECIALTY						
State	129.7	122.5	116.6		257.9	125

SHPDA: May 1986

TABLE 5
OCCUPANCY RATES BY COUNTIES

	1980	1981	1982	1983	1984	1985
LONG TERM CARE						
Oahu	91.4	94.4	96.0	95.4	97.3	97.2
Hawaii	92.9	95.3	82.9	94.6	95.2	95.3
Kauai	94.8	101.2	99.8	94.5	96.3	91.1
Tri-Isle	87.6	93.2	94.9	96.8	92.6	97.0
Maui	89.2	94.4	95.4	97.5	95.0	97.0
Molokai	46.6	78.3	92.5	97.6	55.8	96.8
Lanai	81.8	68.8	77.5	66.6	95.1	84.9
TOTAL ACUTE						
Oahu w/o Tripler	77.3	78.1	79.1	76.5	70.8	67.7
Hawaii	46.0	50.0	49.5	48.2	48.3	48.3
Kauai	46.1	51.8	57.4	49.5	43.8	50.0
Tri-Isle	57.7	54.9	59.1	62.3	58.2	57.8
Maui	63.9	62.1	65.5	67.3	60.4	62.6
Molokai	20.8	20.0	19.3	34.0	41.4	17.3
Lanai	2.5	1.7	5.0	13.3	12.7	12.9
MEDICAL-SURGICAL						
Oahu w/o Tripler	81.6	81.7	83.0	77.2	69.8	68.2
Hawaii	57.8	63.3	63.9	60.8	62.4	62.3
Kauai	49.8	58.6	64.1	54.2	45.8	54.5
Tri-Isle	76.0	70.4	76.8	81.8	65.2	65.0
Maui	82.6	79.3	82.5	86.0	66.1	70.5
Molokai	27.5	28.8	37.5	55.0	67.4	21.5
Lanai	3.5	3.3	10.0	23.3	22.5	22.2
CRITICAL CARE (ICU/CCU)						
Oahu w/o Tripler	53.3	68.5	80.0	73.5	63.6	61.1
Hawaii	39.6	41.9	41.7	39.0	44.9	41.3
Kauai	27.9	6.0	36.0	28.0	29.5	33.4
Tri-Isle	51.9	57.5	55.2	57.8	46.4	52.9
Maui	58.4	57.5	62.3	63.8	51.9	52.9
OBSTETRICS						
Oahu w/o Tripler	75.9	76.3	76.8	81.4	80.7	75.2
Hawaii	37.7	37.8	35.9	33.6	33.7	35.3
Kauai	41.8	40.6	46.0	46.3	38.5	37.9
Tri-Isle	28.2	28.9	27.9	30.0	32.3	27.6
Maui	32.3	33.3	32.5	34.1	39.0	33.6
Molokai	12.9	12.5	10.0	10.0	8.9	4.7
Lanai	4.4	-	1.0	5.0	6.3	9.9
PEDIATRICS						
Oahu w/o Tripler	41.1	46.9	47.8	60.0	54.8	52.4
Hawaii	18.8	18.5	16.7	19.0	14.2	14.4
Kauai	40.1	48.3	43.3	35.0	...	...
Tri-Isle	25.4	25.7	35.5	31.4	76.2	70.7
Maui	26.7	25.8	40.5	35.0	76.2	70.7
Molokai	17.9	10.0	5.0	10.0	...	...
PSYCHIATRIC						
Oahu w/o Tripler	114.7	103.0	90.5	78.3	78.9	62.1
Hawaii	35.9	41.7	39.6	49.0	35.5	35.0
Kauai	36.6	46.7	36.7	45.6	48.0	49.2
Tri-Isle	20.0	21.9	20.0	19.4	37.6	35.6
Maui	22.5	24.3	22.4	22.1	41.3	39.1
Molokai	4.9	2.0	3.0	...	...	...

SHPDA: May 1986

TABLE 6
AVERAGE DAILY CENSUS BY COUNTIES

	1980	1981	1982	1983	1984	1985
LONG TERM CARE						
Oahu	1591.1	1644.2	1669.9	1656.8	1696	1720
Hawaii	371.6	386.8	387.4	387.8	384	385
Kauai	114.7	122.4	125.8	128.5	131	136
Tri-Isle	320.3	333.8	339.9	346.4	341	349
Maui	308.2	319.0	322.6	329.4	321	328
Molokai	5.6	9.4	11.1	11.7	12	14
Lanai	6.5	5.5	6.2	5.3	8	7
TOTAL ACUTE						
Oahu w/o Tripler	1342.2	1376.1	1417.5	1357.1	1280	1284
Hawaii	121.8	131.0	129.6	122.5	124	122
Kauai	65.9	74.0	82.1	70.8	56	59
Tri-Isle	96.3	93.9	98.7	104.1	98	101
Maui	92.7	...	95.6	98.2	93	97
Molokai	3.1	3.0	2.9	5.1	4	3
Lanai	.1	.1	.3	.8	1	1
MEDICAL-SURGICAL						
Oahu w/o Tripler	1019.0	1039.1	1070.9	1011.2	913	889
Hawaii	82.1	89.9	90.7	86.3	90	88
Kauai	50.8	59.8	65.3	54.4	43	45
Tri-Isle	77.5	74.6	78.3	83.4	78	83
Maui	75.2	72.2	75.1	78.3	74	79
Molokai	2.2	2.3	3.0	4.4	3	3
Lanai	.1	.1	.1	.7	1	1
CRITICAL CARE (ICU/CCU)						
Oahu w/o Tripler	66.1	95.2	109.6	118.5	95	94
Hawaii	8.3	8.8	8.7	8.2	9	9
Kauai	2.8	.6	3.6	2.8	3	3
Tri-Isle	4.7	4.6	5.0	5.2	4	5
Maui	4.7	4.6	5.0	5.1	4	5
OBSTETRICS						
Oahu w/o Tripler	113.8	114.5	115.2	120.5	118	111
Hawaii	13.6	13.6	12.9	12.1	12	13
Kauai	6.7	6.5	7.4	7.4	6	6
Tri-Isle	7.3	7.5	7.2	7.9	7	6
Maui	6.8	7.0	6.8	7.5	7	6
Molokai	.5	.5	.4	.4	...	...
Lanai08	.04	...	...	...	...	...
PEDIATRICS						
Oahu w/o Tripler	60.9	65.6	67.5	52.3	47	45
Hawaii	6.4	6.3	5.7	6.5	5	5
Kauai	2.4	2.9	2.6	2.1	...	...
Tri-Isle	3.6	3.6	5.0	4.4	4	4
Maui	3.2	3.5	4.9	4.2	4	4
Molokai	.4	.2	.1	.2	...	...
PSYCHIATRIC						
Oahu w/o Tripler	82.5	61.8	54.3	54.8	83	120
Hawaii	11.5	12.5	11.5	10.3	7	7
Kauai	3.3	4.2	3.3	6.9	4	4
Tri-Isle	3.2	3.5	3.2	6.3	4	4
Maui	3.1	3.4	3.1	6.3	4	4
Molokai2	.05	.02	.03	...	...	...
MENTALLY RETARDED						
State	423.7	405.4	360.4	...	346	321
SPECIALTY						
State	373.0	365.4	390.3	...	383	385

SHPDA: May 1986

TABLE 7
NUMBER OF ADMISSIONS BY COUNTY

	1980	1981	1982	1983	1984	1985
LONG TERM CARE						
Oahu	1605	1537	1572	1478	1373	1522
Hawaii	567	464	420	607	513	490
Kauai	173	126	131	178	247	254
Tri-Isle	305	351	375	311	473	309
Maui	293	331	348	282	446	281
Molokai	7	13	20	20	23	19
Lanai	5	7	7	9	4	9
TOTAL ACUTE						
Oahu w/o Tripler	75875	77152	78155	78459	73955	61416
Hawaii	11599	10206	11526	10455	10328	10313
Kauai	4633	4565	5400	5597	4697	4909
Tri-Isle	7337	7324	7293	7820	7550	7835
Maui	6888	6868	6866	7253	7007	7406
Molokai	426	436	395	500	478	331
Lanai	23	20	37	67	65	98
MEDICAL-SURGICAL						
Oahu w/o Tripler	48370	51495	51335	51853	47292	45222
Hawaii	7162	7272	7160	6017	6023	6038
Kauai	2834	2952	3187	3310	2942	3117
Tri-Isle	4986	4882	4765	5148	5009	5386
Maui	4703	4590	4478	4752	4572	5024
Molokai	268	272	253	351	387	283
Lanai	15	20	34	45	50	79
CRITICAL CARE (CCU/ICU)						
Oahu w/o Tripler	6358	4757	5522	5585	5686	5878
Hawaii	1089	993	1085	1093	1304	1272
Kauai	394	111	631	698	588	611
Maui	549	556	575	714	545	563
OBSTETRICS						
Oahu w/o Tripler	12799	12727	13203	14018	13653	12734
Hawaii	2025	2084	2079	2025	2061	1924
Kauai	989	955	1033	1028	921	891
Tri-Isle	1222		1290	1419	1390	1238
Maui	1112		1182	1306	1288	1173
Molokai	102	113	105	100	911	48
Lanai	8	-	3	13	11	17
PEDIATRICS						
Oahu w/o Tripler	5707	6106	6357	5023	4416	4209
Hawaii	781	806	739	837	661	633
Kauai	314	347	361	341	...	...
Tri-Isle	419	442	456	463	399	437
Maui	374	398	452	414	399	439
Molokai	45	44	4	49	...	...
PSYCHIATRIC						
Oahu w/o Tripler	2641	2067	1738	2000	2556	3565
Hawaii	542	562	463	483	434	446
Kauai	132	200	188	220	246	290
Tri-Isle	161	140	182	176	207	211
Maui	150	133	174	176	207	209
Molokai	11	7	8	...	...	...
Lanai	...	...	...	...	...	2

SHPDA: May 1986

FAMILY HEALTH SERVICES DIVISION

FAMILY HEALTH SERVICES DIVISION

Summary

The Family Health Services Division administers and coordinates programs concerned with the provision and promotion of health services to families, including women of childbearing age, infants, children and youth, and of community services for the developmentally disabled. These programs are carried out through the Maternal and Child Health Branch, which includes Family Planning, the Crippled Children Services Branch, the Community Services for the Developmentally Disabled Branch and the School Health Services Branch.

The Maternal and Child Health Branch divides its services into three sections: (1) family planning services, (2) maternal and infant services, and (3) children and youth services. The goal of the Maternal and Child Health (MCH) Branch is to assure that all women of childbearing age, infants and children in the State of Hawaii achieve and maintain optimal health. The Branch focuses on a variety of methods to achieve an integrated health delivery system of MCH services between both the public and private sectors. These methods include direct service provision, cooperative interagency agreements, purchase of service contracts, training others to provide the service, developing community resources, and coordinating existing community resources.

The Family Planning Services Section strives to provide individuals the freedom of choice to determine the number and spacing of their children. Its services also center around helping young people develop a responsible attitude about parenthood. The Office of Family Planning coordinates federal, state and private resources for statewide delivery of quality services, staff education and training, program planning, evaluation, and research. Family planning services were provided to 13,666 in fiscal year 1985. Services provided by project site are given in Table 1.

The Maternal and Infant Services Section administers the Maternity and Infant Care (MIC) Project which maintains two clinics centered in areas having a high prevalence of low-income families. These sites are Waimanalo on Oahu and Hilo on the Big Island of Hawaii. The clinics offer comprehensive maternity care including nutritional, prenatal, postpartum, and family planning services. Comprehensive pediatric care is given to high-risk, low-income infants for their first year of life. The emphasis of the MIC clinics has been to develop effective programs in parent education, to serve young people as well as low-income families, and to lower the incidence of low birth weight newborns in these high-risk populations. Table 2 summarizes the activities of the MIC Project clinics during calendar year 1985.

The Children and Youth Services Section includes the Children and Youth Project; the Child Health Conferences; the Early and Periodic Screening, Diagnosis and Treatment Program; and the Preschool Developmental Screening Program. The Children and Youth Project offers preventive case finding and diagnostic services to any child in Waimanalo younger than 16 years. For low-income children, it offers complete health care, including pediatric care, referral to specialists, hospitalization, dentistry, psychological services, speech services, as well as public health nursing, social casework, and nutrition services. A total of 2,023 infants and children were enrolled during the calendar year 1985. Table 3 indicates the number of patients served and the type of service received.

Child Health Conferences include medical well-baby clinics, nursing conferences, and pediatric evaluation clinics. Children from birth through 5 years of age may attend the clinics located throughout the State. Services include health assessment, immunization, childrearing guidance, nutrition counseling, preventive mental health, and referral to other agencies when needed. Child Health Conferences are supplemented by public health nursing services in the homes, day care centers, and at nursing stations. A total of 9,370 children were seen in the Child Health Conferences in fiscal year 1985. Table 4 shows the attendance at Child Health Conferences by age and by county for 1985.

The Early and Periodic Screening, Diagnosis and Treatment (EPSDT) Program conducted throughout the State is primarily for children from birth through 21 years of age who are Medicaid-eligible. The screening includes physical and developmental screening, vision and hearing screening, urine screening, tests for anemia and tuberculosis, and immunizations. The staff screened 894 children during fiscal year 1985.

The Preschool Developmental Screening Program continues training and consultative services to interested preschool staff, public health nurses and other interested community providers so they may perform their own screening and refer to appropriate community resources for necessary follow up, including diagnostic evaluations for learning and/or developmental problems. During fiscal year 1985, 268 staff, nurses and community providers were trained, over 22% of the target population of 1,200. DIAL (Developmental Indicators for the Assessment of Learning) training workshops were completed on the Big Island of Hawaii, and certified screeners now exist on Oahu, Hawaii, Kauai, Lanai, Maui, and Molokai.

The Crippled Children Services Branch offers diagnostic evaluations by specialists to all children under the age of 21 years who are suspected of having one of the eligible medical conditions (Table 7). An individual treatment plan is formulated for each client by an interdisciplinary team of health professionals. If not financially eligible for further services, the client is referred for appropriate private care. Treatment services for those children who are financially eligible and have an eligible medical condition include medical and surgical treatment, hospitalization, occupational and physical therapy, speech therapy, orthodontic and dental treatment, social work and nursing services.

The medical eligible conditions include major birth defects (such as cleft lip and palate, congenital heart disease, orthopedic conditions and spina bifida), also severe asthma, rheumatic fever and rheumatic heart disease, surgically correctable eye conditions, hearing impairment and certain neurologic disorders. The branch also provides genetic counseling and diagnostic services through Kapiolani Women's and Children's Medical Center.

The Community Services for the Developmentally Disabled Branch plans, organizes, coordinates, administers and evaluates community-based services to children and adults with developmental disabilities and their families. The continuum of services which is required to facilitate growth and development throughout life is provided by or contracted through the Department of Health. This service continuum begins with early identification, diagnostic and training services in infancy and extends through an array of adult activity programs and residential alternatives in the community.

The Child Study Section, through Child Development Clinics, provides early identification activities of Diagnostic and Evaluation services for children with developmental problems. The Child Development Clinic provides itinerant services to the islands of Hawaii, Kauai, Maui and Molokai several times a year. In addition, diagnostic services for children with complex or puzzling conditions are available through the Diagnostic Observation Center which provides a daily program in which the diagnostic evaluation process may take place for over an extended period.

A total of 275 comprehensive diagnostic evaluations were completed during the fiscal year of which 49 were provided via the neighbor island clinics.

The Community Program Section includes treatment/training programs for infants and young children with developmental disabilities and delays, who are at risk of mental retardation; residential services for the mentally retarded in the community; respite care and interdisciplinary support services to the case management system. These activities are carried by two units: the Infant and Child Development Centers and the Community Support Services Unit.

The Infant and Child Development Centers provide developmentally disabled or delayed infants and children a comprehensive individualized, developmental training program; families and caretakers are provided services to increase their knowledge, skills, attitudes and confidence needed to provide the optimum environment for their child. Seven hundred and sixty-seven (767) children and their families received services during 1984-85; 410 were serviced in Department of Health programs; and 357 received service from private agencies through contracts with the Department.

The Community Support Services Unit provides direct services to developmentally disabled adults through an interdisciplinary team to maximize their potential, enhance their quality of life and sustain them in the community. The Unit is also responsible for developing community resources and providing training to community programs and caretakers. An array of support services are provided by the Unit staff and through contracted services such as therapeutic residential services. The Unit staff is responsible for developing standards, monitoring and evaluating the contracted services.

Placement and Continuing Services Section provided case management services to 878 developmentally disabled persons, who are primarily the mentally retarded, during fiscal year 1985. Case management services provided by social workers involved acquiring and coordinating various community services and programs to sustain developmentally disabled persons in the community, following their adjustments in living and training situations, advocating on their behalf, and constantly assessing needs to promote their welfare. Case management services were provided to 586 mentally retarded persons on leave or conditionally released from Waimano Training School and Hospital and 292 community-referred mentally retarded persons who were potential for first-time admissions to the institution. The Director of Health is guardian for 550 of the population on leave from Waimano. At June 30, 1985, Waimano residents on leave decreased from the last report date from 602 to 586. The decrease is attributed to lower numbers of residents placed in the community, discharges, and deaths. There was a slight increase in community-referred population at June 30, 1985, at 292 from 285 of the previous report date. Sixty percent of this population might have sought institutional care, but were sustained by various program activities.

The Branch provides various activity programs to develop personal self-sufficiency, social- and work-related skills in developmentally disabled adults. These services include the Branch operations but are primarily contracted by the Branch. There was an increase in numbers served in adult training programs at 949 from 870 of the previous year. The increase was due to the addition of a new program and client movements in programs out of services.

The Branch provides respite care services through its foster home operations and contractual services. The numbers served in respite care programs increased to 412 from 372. The provider of services supplemented the funding by charging fees.

Under delegated responsibility from Department of Social Services and Housing, this Section develops, recruits, licenses, trains and monitors foster homes to provide care for mentally retarded children in the community. As of June 30, 1985, there were 69 active foster homes. Of this total 18 are operated as group, therapy, teaching or respite homes by private agencies on contract with the Department; the remaining 51 are maintained by Placement and Continuing Services Section.

The School Health Services Branch has a vital role to play in promoting and safeguarding the health of the school population. The goal of the Branch is to ensure that school-aged children will achieve their potential for effective physical, intellectual and emotional functioning as adults. The Branch focuses on the integration and coordination of health resources for the more than 200,000 school-aged children in Hawaii. Services are provided predominantly within the public schools.

The Branch divides its service into two sections. The School Health Services Section provides first aid services for illness and injury, early identification of health conditions, preventive health care and referral of problems to appropriate resources in the community. With the advent of P.L. 94-142, there has been a greater emphasis and demand for nursing services to the special education population.

The School Health Support Services Section includes the Vision and Hearing Screening Unit and the Occupational Therapy and Physical Therapy Unit. The Vision and Hearing Screening Unit provides services for the early identification of specific sensory deficits in order to prevent interference with learning and adjustment. They provide uniform and regular screening, rescreening of students, issue medical referrals and conduct follow up with parents. Selected services are provided to the preschools and private schools.

The Occupational Therapy and Physical Therapy Unit provides evaluation, consultation and therapy services to the handicapped school population in accordance with P.L. 94-142. Therapy services are directed towards the development and maintenance of the handicapped child's potential for independence in all educationally related activities.

TABLE 1

WOMEN RECEIVING FAMILY PLANNING SERVICES
IN PUBLICLY-SUBSIDIZED CLINICS IN HAWAII
DURING FISCAL YEAR 1985

Service Provider	Number of Clients		Number of Client Visits
	Total	New*	
Bay Clinic	1,355	744	2,671
Hawaii Planned Parenthood	2,639	1,273	5,052
Kalihi-Palama Health Clinic	881	611	1,652
Kapiolani Women's and Children's	1,691	700	3,715
Kokua Kalihi Valley	498	340	960
Molokai General Hospital	277	129	627
Queen's Medical Center	879	608	1,521
University of Hawaii	1,586	700	3,225
Waikiki Health Center	825	593	1,282
Department of Health Providers			
Hilo Maternity and Infant Care	278	82	988
Lanai Family Health Center	46	42	60
Rural Oahu Family Planning Project	2,353	1,251	4,714
Waimanalo Maternity and Infant Care	358	76	828
STATE TOTAL	13,666	7,149	27,295

* Clients new to provider agency.

TABLE 2

NUMBER OF WOMEN AND INFANTS RECEIVING SERVICES
AT THE MATERNITY AND INFANT CARE PROJECT BY TYPE OF SERVICE
CALENDAR YEAR 1985
STATE OF HAWAII

Type of Service	Number of Women and Infants Receiving Services
Prenatal - total caseload[a/]	270
Prenatal - new admissions	168
Under 15 years old	2
15 years	6
16 - 34 years old	155
35 years and over	5
Total deliveries	126
Live births under 2501 grams	6
Infants admitted for High Risk Infant Care[b/]	9
Family planning caseload[c/]	848
New admissions	229
Admissions selecting oral contraceptives	160
Admissions selecting intrauterine devices	9

a/ Includes comprehensive, and educational/screening services.

b/ High risk: having any prenatal, intrapartum, developmental or hereditary condition or other circumstance which increases the risk of survival and/or to normal development. Total number of new admissions.

c/ Caseload at beginning of year was 619.

TABLE 3

WAIMANALO CHILDREN AND YOUTH PROJECT ACTIVITIES
STATE OF HAWAII, CALENDAR YEAR 1985

Type of Activity	No. of Encounters	No. of Children
Target population*	...	3,048
Total number enrolled any part of 1985	...	2,023
Current enrollment, December 1985	...	1,637
New enrollees in 1985	...	207
Moved away or to private doctor	...	281
Became over aged (16 years old)	...	104
Deceased	...	1
Medical Services		
Episodic Care	3,535	...
Health Assessments	4,305	1,611
Public Health Nursing Services		
Home Visits	405	...
Hospital Visits	139	82
Speech and Hearing Services		
Screening	1,019	...
Diagnostic	242	...
Therapy	570	...
Dental Referrals	481	311

* Based on adjusted figure from 1980 census.

TABLE 4

INFANTS AND CHILDREN PROVIDED PUBLIC HEALTH NURSING SERVICES
IN CHILD HEALTH CONFERENCES
STATE OF HAWAII, FISCAL YEAR 1985

County	Total	Infants Under 1 Year	Children 1 Year and Over
Honolulu County	5,963	1,363	4,600
Hawaii County	1,560	366	1,194
Kauai County	459	149	310
Maui County	1,388	367	1,021
STATE TOTAL	9,370	2,245	7,125

Table 5

DISTRIBUTION OF CHILDREN RECEIVING
SERVICES BY COUNTY AND AGE
CRIPPLED CHILDREN SERVICES BRANCH
STATE OF HAWAII, DEPARTMENT OF HEALTH
FISCAL YEAR 1984-85

COUNTY	Total	New	Old	<1	1-4	5-9	10-14	15-17	18-20	21
Kauai	98	27	71	7	31	23	18	11	6	2
	7.4%	7.6%	7.3%	8.1%	8.0%	7.6%	6.6%	7.1%	5.9%	7.7%
Maui	111	14	97	3	27	26	29	14	10	2
	8.3%	4.0%	9.9%	3.5%	7.0%	8.6%	10.7%	9.0%	9.9%	7.7%
Hawaii	298	54	244	15	88	68	75	30	16	6
	22.4%	15.3%	24.9%	17.4%	22.7%	22.4%	27.6%	19.4%	15.8%	23.1%
Oahu	825	258	567	61	242	187	150	100	69	16
	61.9%	73.1%	57.9%	70.9%	62.4%	61.5%	55.1%	64.5%	68.3%	61.5%
TOTALS	1,332	353	979	86	388	304	272	155	101	26

Table 6

SERVICES PROVIDED BY
CRIPPLED CHILDREN SERVICES
BY TYPE OF SERVICE
(Unduplicated Count)
STATE OF HAWAII, DEPARTMENT OF HEALTH
FISCAL YEAR 1984-85

Type of Service	Total Cases	Service Units
Clinics	1,225	2,342
Nursing	57	3,666
Occupational Therapy	69	2,672
Physical Therapy	88	4,014
Social Work	681	3,759
Speech/Language	180	1,443
Purchased	1,529	3,065
TOTAL	3,829	20,961

Table 7

DISTRIBUTION OF PRIMARY MEDICAL CONDITIONS AMONG CHILDREN
RECEIVING CRIPPLED CHILDREN SERVICES BY DIAGNOSTIC GROUP AND AGE OF CHILD
(Unduplicated Count)
STATE OF HAWAII, DEPARTMENT OF HEALTH
FISCAL YEAR 1984-85

Diagnostic Group	Type of Case			Age Group of Children						
	TOTAL	NEW	OLD	<1	1-4	5-9	10-14	15-17	18-20	21
TOTALS	1,514	367	1147	91	420	344	340	184	112	23
CARDIAC DISORDERS										
Congenital Heart Disease	266	74	192	34	86	57	45	19	23	2
Circulatory System Disease	37	15	22	2	13	8	11	1	1	1
Malformation of Great Vessels	34	8	26	3	9	9	7	4	2	0
Rheumatic Heart Disease	91	9	82	0	3	6	27	30	17	8
Rheumatic Fever	86	14	72	0	0	10	39	25	9	3
CRANIOFACIAL DISORDERS										
Cleft Lip	33	6	27	3	13	5	8	3	1	0
Cleft Palate	10	2	8	1	5	3	0	1	0	0
Cleft Lip and Palate	80	7	73	3	27	15	15	11	9	0
Other Craniofacial Disorders	3	1	2	0	1	1	0	1	0	0
COMMUNICATION DISORDERS										
Conductive Hearing Loss	15	5	10	0	4	5	3	3	0	0
Non-Organic Speech Disorders	3	1	2	0	1	0	2	0	0	0
Organic Speech Disorders	44	4	40	0	14	15	12	2	1	0
Other Hearing Impairment	5	1	4	0	0	2	1	0	2	0
Sensorineural Hearing Loss	129	37	92	1	43	33	27	19	6	0
EAR DISORDERS										
Chronic Otitis Media	56	7	49	0	14	25	12	2	2	1
CONGENITAL DISORDERS										
Congenital Malformation of the Ear	2	0	2	0	2	0	0	0	0	0
Gastrointestinal	16	3	13	1	9	1	3	1	1	0
Genitourinary	9	2	7	0	6	3	0	0	0	0
Inborn Metabolic Errors	12	7	5	2	8	1	0	0	1	0
Other Congenital	49	22	27	14	22	7	2	1	3	0
NEUROLOGICAL/NEUROMUSCULAR										
Cerebral Palsy	66	9	57	1	10	22	23	7	2	1
Congenital Hydrocephalus	11	1	10	1	7	1	2	0	0	0
Muscular Dystrophy	7	2	5	0	1	3	0	3	0	0
Myelodysplasia	73	8	65	3	18	22	15	6	8	1
Seizure Disorders	110	23	87	2	26	22	33	13	11	3
Other Nervous System Disease	12	4	8	1	2	2	3	4	0	0
ORTHOPEDIC										
Club Foot	14	2	12	0	6	2	6	0	0	0
Congenital Limb Malformation	5	0	5	0	2	1	0	2	0	0
Congenital Hip Dislocation	5	2	3	1	2	0	1	0	1	0
Polio	1	0	1	0	0	0	0	0	0	1
Scoliosis	21	0	21	0	2	3	8	7	1	0
Other Orthopedic	25	4	21	3	3	7	8	3	1	0
PULMONARY DISORDERS										
Asthma	45	12	33	1	9	16	9	6	4	0
Cystic Fibrosis	4	3	1	1	2	1	0	0	0	0
Other Respiratory	1	0	1	0	1	0	0	0	0	0
RHEUMATOID ARTHRITIS	8	0	8	0	0	3	3	0	1	1
VISUAL DISORDERS										
Cataract	3	2	1	1	1	0	1	0	0	0
Strabismus	11	1	10	0	4	7	0	0	0	0
Other Visual	3	1	2	0	0	1	1	1	0	0
MISCELLANEOUS										
Accidents	5	0	5	0	1	0	3	1	0	0
Blood Disorders	1	1	0	0	1	0	0	0	0	0
Burns	1	0	1	0	0	0	0	1	0	0
Deferred Diagnosis	13	5	8	2	5	1	2	1	2	0
Learning Disability	76	59	17	9	35	21	6	4	0	1
Mental Retardation	2	0	2	0	0	1	1	0	0	0
Miscellaneous	7	0	7	0	1	0	1	2	3	0
No Abnormalities	3	3	0	1	1	1	0	0	0	0
Perinatal Complications	1	0	1	0	0	1	0	0	0	0

TABLE 8

INFANT & CHILD DEVELOPMENT SERVICES PROVIDED
BY NUMBER OF CHILDREN SERVED AND GEOGRAPHIC AREA COVERED

STATE OF HAWAII, FISCAL YEAR 1984-85

NAME OF PROGRAM	GEOGRAPHIC AREA SERVED	NO. SERVED
Private Agencies		
Society for Crippled Children & Adults of Maui County	Maui/Molokai	108
Easter Seal Society of Hawaii, Inc.		
Kauai	Kauai	31
Hawaii	Hilo and outlying areas, Pahoa to Waimea	62
Oahu	Hawaii Kai to Liliha Street	84
Waianae Coast Day Care Center, Inc.	Waianae, Oahu	46
United Cerebral Palsy	Oahu	26
Sub-total Private Agencies		357
Department of Health		
Kona Infant Development Program	Kona Coast	58
Lanakila Infant Development Program	Kalihi/Palama	84
Leeward Infant & Child Development	Makakilo, Halawa Heights, Aiea, Hickam, Pearl City, Ewa, Waipahu	103
Wahiawa Infant & Child Development Program	Wahiawa, Haleiwa, Waialua, Mililani, Sunset Beach	95
Windward Infant & Child Development Program	Windward Coast Waimanalo to Kahuku	70
Sub-total DOH		410
Total Children Served		767

TABLE 9

NUMBER OF MENTALLY RETARDED IN
CASE MANAGEMENT SERVICES

STATE OF HAWAII, FISCAL YEAR 1985

Total	878
Leave Population	586
Community-Referred Population	292

TABLE 10

STATISTICAL MOVEMENT OF RESIDENTS FROM
WAIMANO TRAINING SCHOOL AND HOSPITAL

STATE OF HAWAII, FISCAL YEAR 1984

Residents on Leave at Start of Year	602
Community Placements	9
Discharge While on Leave	7
Deaths on Leave	8
Returns from Community Placement	10
Residents on Leave at End of Year	586

TABLE 11

LEAVE POPULATION, WAIMANO, JUNE 30,
BY MEASURED INTELLIGENCE

STATE OF HAWAII, FISCAL YEAR 1985

Measured Intelligence	Leave Population on June 30
Total	586
I. Mild	125
II. Moderate	156
III. Severe	180
IV. Profound	118
Borderline	6
Undetermined Intelligence	1

TABLE 12

ACTIVITY PROGRAMS

STATE OF HAWAII, FISCAL YEAR 1985

Area	Type of Program	Numbers Served
	Total	949
Oahu	Nonvocational Social	76
	Day Treatment	34
	Day Activity	227
	Prevocational	260
	Work Activity	86
Hawaii	Day Activity	43
	Prevocational	20
	Work Activity	65
Maui	Day Activity	51
	Prevocational	15
	Work Activity	-
Kauai	Nonvocational Social	14
	Day Activity	36
	Prevocational	-
	Work Activity	22

NOTE: Numbers include DOH operations and contracted programs.

TABLE 13

RESPITE CARE PROGRAMS
NUMBERS SERVED AND GEOGRAPHIC AREAS COVERED

STATE OF HAWAII, FISCAL YEAR 1985

Agency	Area	Numbers Served
	Total	412
DOH	Oahu	15
Easter Seal Society	Oahu	235
ARC, Hilo	Hawaii	28
ARC, Maui	Maui	76
ARC, Kauai	Kauai	58

TABLE 14
TOTAL NUMBERS OF HEALTH ROOM VISITS, a/
REASONS FOR VISIT AND DISPOSITION
School Health Services Branch
Department of Health
State of Hawaii
By School Year From 1980-81 Through 1984-85

	1980-81	1981-82	1982-83	1983-84	1984-85
Total visits to health room	528,146	550,837	550,661	501,515	524,973
Reason for visit: b/					
(Students Only)	(43.88)	(45.68)	(44.26)	(44.75)	(45.33)
Illness	231,748	251,618	243,712	224,412	237,993
	(44.83)	(39.53)	(39.72)	(39.11)	(37.97)
Injury	236,751	217,746	218,723	196,141	199,318
	(2.33)	(5.22)	(6.15)	(6.13)	(7.02)
Medication	12,294	28,729	33,854	30,733	36,875
	(2.46)	(3.57)	(4.45)	(4.72)	(4.10)
TLC	13,007	19,677	24,511	23,688	21,540
	(6.28)	(5.82)	(5.25)	(5.14)	(5.57)
Non-health	33,163	32,085	28,909	25,770	29,247
Disposition:					
(Students and Staff)	(19.06)	(20.89)	(19.86)	(19.67)	(21.05)
Sent home	100,666	115,088	109,367	98,672	110,519
	(79.16)	(77.25)	(78.31)	(78.43)	(77.14)
Returned to class	418,067	425,496	431,241	393,322	404,974
	(1.78)	(1.86)	(1.83)	(1.90)	(1.81)
Remained in health room	9,413	10,253	10,053	9,521	9,480

Total health room visits include students and staff.

a/ Numbers are approximate.

b/ Numbers in parenthesis represent percentages of annual health room visits.

TABLE 15
HEALTH PROBLEM SUMMARY LIST
School Health Services Branch
Department of Health
State of Hawaii
1984-85

	DISTRICT							
	Honolulu	Windward	Central	Leeward	Hawaii	Maui	Kauai	TOTAL
Allergy	364	799	1671	1188	336	338	376	5,072
Anemia	31	8	21	21	2	2	72	157
Anorexic	3	1	2	1		1		8
Arthritis	15	11	10	13	11	2	2	64
Asthma	843	654	1284	1028	749	413	680	5,651
Battered Child Syndrome	1	15	17	34	10	2	5	84
Cancer	12	8	17	13	2	1	3	56
Cardiac	139	58	80	65	64	51	35	492
Cerebral Palsy	16	28	34	25	24	14	14	155
Child Neglect			16	5	5	1	3	30
Cystic Fibrosis		2	1	1				4
Diabetes Mellitus	19	21	28	22	16	9	10	125
Ear	893	449	442	548	414	261	168	3,175
Eye	204	104	157	222	94	138	148	1,067
Glomerulonephritis	5	18	7	8	5	7	7	57
Hansen's Disease	1			3				4
Hemophilia	1	5	3	3	1	1		14
Hypertension	8	6	20	7	4	1	5	51
Hyperthyroidism	3	4	5	2	5		2	21
Hypothyroidism	3	2	4	2	4	1	1	17
Muscular Dystrophy	5	5	5	9	2	3	4	33
Obesity	75	26	67	42	65	3	40	318
Pregnant	11	45	25	74	103	6	24	288
Rheumatic Fever	26	18	18	34	38	15	4	153
Scoliosis	112	174	251	145	241	78	13	1,014
Seizures	145	94	128	151	81	61	37	697
Spina Bifida	10	1	9	4	1	1	3	29
Suicide	1	11		17			1	30
Tuberculosis	2							2
Other	206	276	256	426	96	98	26	1,384
TOTAL	3,154	2,843	4,578	4,113	2,373	1,508	1,683	20,252

Revised 3/86

TABLE 16
REASON FOR STUDENTS HEALTH ROOM VISITS BY ISLANDS [a]
School Health Services Branch
Department of Health
State of Hawaii
1984-85

Island	Injury	Illness	Medication		TLC	Non-health
			SA [c]	Auth. [d]		
Oahu	158,300	180,781	6,559	28,288	15,136	22,699
Hawaii	16,125	25,076	74	609	1,070	1,557
Maui [b]	15,389	20,832	215	768	3,209	2,031
Kauai	9,504	11,304	236	126	2,125	2,960
TOTAL	199,318	237,993	7,084	29,791	21,540	29,247

a/ Numbers are approximate.
b/ Maui includes the islands of Maui, Molokai and Lanai.
c/ Self-administration
d/ Authorized.

TABLE 17
DISPOSITION OF STUDENTS AFTER HEALTH ROOM VISITS, BY ISLANDS [a]
School Health Services Branch
Department of Health
State of Hawaii
1984-1985

Island	Total Seen		Sent Home	Returned to Class	Remained in Health Room
	Students	Adults			
			(20.7) [c]	(77.7) [c]	(1.7) [c]
Oahu	411,289	474	85,319	319,499	6,945
			(22.6)	(75.1)	(2.4)
Hawaii	44,480	31	10,059	33,400	1,052
			(21.7)	(76.0)	(2.5)
Maui [b]	42,342	102	9,197	32,171	1,076
			(22.7)	(76.0)	(1.6)
Kauai	26,180	75	5,944	19,904	407
TOTAL	524,291	682	110,519	404,974	9,480

a/ Numbers are approximate.
b/ Maui includes the islands of Maui, Molokai and Lanai.
c/ Numbers in parenthesis are percentages of total seen.

TABLE 18
SCOLIOSIS SCREENING STATISTICS SUMMARY
GRADES 7 & 8 - PUBLIC SCHOOLS (SPECIAL EDUCATION INCLUDED)
School Health Services Branch
Department of Health
State of Hawaii
1984 - 1985

	Number	Percent	
I. Total Target Group	16,426	100.0	
A. Students Screened	15,172	(92.4%)	
1. Female	7,193	(47.4%)	
2. Male	7,979	(52.6%)	
B. Students with Abnormal Findings	891	(5.9%)	
1. Recheck in one year	537	(60.3%)	
2. Referred to M.D.	354	(39.7%)	1)
a. Students seen by M.D., others	202	(57.1%)	
1. Confirmed Scoliosis	156	(77.2%)	
a) Female	115	(73.7%)	
b) Male	41	(26.3%)	
c) New Cases	147	(94.2%)	2)
1. Treatment started	141	(95.9%)	
a- Observation	117	(83.0%)	
b- Exercises	4	(2.8%)	
c- Bracing	2	(1.4%)	
d- Surgery	2	(1.4%)	
e- Other	16	(11.3%)	
2. No follow-up	6	(4.1%)	
d) Students known to M.D., unknown to school	9	(5.8%)	
2. Negative for Scoliosis no follow-up	17	(8.4%)	
3. Negative for Scoliosis, follow up	15	(7.4%)	
4. Conditions other than Scoliosis	14	(6.9%)	
b. Students, pending appointments	121	(34.2%)	
c. No follow-up by student; transferred out	31	(8.8%)	
C. Students not Screened	1,254	(7.6%)	
1. Already known/under care	155	(12.3%)	
2. Absent from school	783	(62.4%)	
3. Parent refusal	236	(18.9%)	
4. Student refusal	80	(6.3%)	

1) 2.3% of all students screened
2) Incidence rate: 147 new cases divided by 15,172 students screened=1.0%
3) Prevalence rate: 156 confirmed scoliosis cases + 9 cases known to doctor + 155 known cases under doctor's care divided by 16,426 (target group) =1.9%.

TABLE 19
VISION STATISTICS
School Health Services Branch
Department of Health, State of Hawaii
1984-85

Type of School	Total Number Screened	Number Referred	% Ref.	No. of Completed Referrals	% Comp. Ref.	No. New Deficit Findings	% New Def. Find.	% Def. Find. of No. Screen.	No. New Glasses Prescribed	% New Glasses	% New Glass of No. Screen	% Over. Ref.
Preschools	8,692	94	1.1	65	69	52	80	0.6	16	31	0.2	20
Priv./Paroch. Schools	204	0	0	0	-	-	-	-	-	-	-	-
Dept. of Educ.	107,563	2,748	2.6	1,781	65	1,569	88	1.5	1,026	65	1.0	12
Oahu	77,662	2,157	2.8	1,394	65	1,243	89	1.6	803	65	1.0	11
Hawaii	14,545	264	1.8	193	73	161	83	1.1	106	66	0.7	17
Maui	9,776	256	2.6	143	56	114	80	1.2	79	69	0.8	20
Kauai	5,580	71	1.3	51	72	51	100	0.9	38	75	0.7	0
Total	116,459	2,842	2.4	1,846	65	1,621	88	1.4	1,042	64	0.9	12

TABLE 20
HEARING STATISTICS
School Health Services Branch
Department of Health, State of Hawaii
1984-85

Type of School	Total Number Screened	Number Referred	% Referred	No. of Completed Referrals	% Comp. Ref.	Number Deficit Finding	% Def. Find.	% Def. Find. of Number Screened	% Over Ref.
Preschools	7,899	413	5	251	61	215	86	2.7	14
Private/Parochial Schools	11,196	280	3	156	56	113	72	1.0	28
Dept. of Educ.	73,810	3,248	4	1,719	53	1,389	81	1.9	19
Oahu	55,833	2,412	4	1,248	52	983	79	1.8	21
Hawaii	8,510	347	4	207	60	191	92	2.2	8
Maui	6,059	369	6	223	60	180	81	3.0	19
Kauai	3,408	120	4	41	34	35	85	1.0	15
Total	92,905	3,941	4	2,126	54	1,717	81	1.8	19

TABLE 21
NUMBER OF STUDENTS RECEIVING OCCUPATIONAL THERAPY SERVICES
BY CATEGORY AND DISTRICT, FISCAL YEAR 1984-85
School Health Services Branch
Department of Health, State of Hawaii

	Honolulu	Windward	Central	Leeward	Hawaii	Maui	Kauai	Total
Severely Multiply Handicapped	35	28	26	45	20	19	12	185
Learning Disabled	113	132	134	84	43	13	10	529
Mild Ment. Retarded	28	36	33	26	11	5	8	147
Mod. Ment. Retarded	30	20	19	28	14	5	2	118
Sev./Prof. Ment. Retarded	18	18	11	5	5	0	2	59
Ortho. Handicapped	14	14	32	10	17	1	5	93
Deaf/Blind	3	0	1	1	0	0	0	5
Emot. Handicapped	5	7	14	7	7	0	0	40
Visually Impaired	5	0	5	3	0	0	2	15
Hearing Impaired	2	2	1	1	0	0	2	8
Learning Impaired	14	29	39	16	16	4	3	121
Others	17	27	36	28	17	5	11	139
Total	284	313	349	254	150	52	57	1459

TABLE 22
NUMBER OF STUDENTS RECEIVING PHYSICAL THERAPY SERVICES
BY CATEGORY AND DISTRICT, FISCAL YEAR 1984-85
School Health Services Branch
Department of Health, State of Hawaii

	Honolulu	Windward	Central	Leeward	Hawaii	Maui	Kauai	Total
Severely Multiply Handicapped	38	18	37	37	25	20	11	186
Learning Disabled	35	12	12	3	9	12	9	92
Mild Ment. Retarded	17	0	7	7	6	8	9	54
Mod. Ment. Retarded	26	2	11	9	11	3	2	64
Sev. Ment. Retarded	11	4	5	5	5	0	1	31
Ortho. Handicapped	36	23	34	5	28	4	6	136
Deaf/Blind	1	0	0	0	0	0	0	1
Emot. Handicapped	1	2	4	0	0	0	0	7
Visually Impaired	7	0	1	0	2	0	1	11
Hearing Impaired	5	0	1	2	0	0	0	8
Learning Impaired	19	12	31	8	9	8	1	88
Others	11	4	7	5	10	6	6	49
Total	207	77	150	81	105	61	46	727

COMMUNICABLE DISEASE DIVISION

INFECTIOUS DISEASE SUMMARY

ENTERIC DISEASES. Salmonellosis and shigellosis reported decreased slightly in 1985 with 337 and 138 reported cases respectively.

HEPATITIS. The incidence of Hepatitis A more than doubled in 1985 as a result of an extended outbreak on the Big Island from July to December. A total of 109 cases were reported in 1985 as compared to 33 cases in 1984. The incidence of Hepatitis B also increased from 74 reported cases in 1984 to 127 cases in 1985.

INFECTIOUS MENINGITIS. Aseptic meningitis cases increased slightly in 1985 to 137 cases compared with 108 in 1984. Bacterial meningitis continued at a virtually unchanged rate of 38 with 3 reported Haemophilis influenza type B isolates.

INFLUENZA. Influenza incidence tripled in 1985 to 1,009 cases after a decline in 1984 of 328 cases. The majority of influenza illness was associated with isolates of type A influenza (A/Philippines/2/82) during the early part of the season with a smaller peak late in the season associated with isolates of the type B influenza (B/USSR/10/83).

SEXUALLY TRANSMITTED DISEASES. There were 2,162 gonorrhea cases reported for Calendar Year 1985. This is the fifth consecutive year Hawaii has recorded a decrease in the total number of gonorrhea cases reported. The gonorrhea case rate of 205.1 cases per 100,000 population is the lowest case rate reported since 1970. The decrease in gonorrhea cases occurred primarily among males.

There were 110 Penicillinase-producing Neisseria gonorrhoeae (PPNG) reported in 1985. Almost all of these cases were either directly imported by travelers from the Far East or were epidemiologically linked to the Far East, indicating little endemic spread of PPNG in Hawaii.

There were 118 infectious syphilis reported in 1985, which is slightly less than the number reported in 1984. However, the number of females reported with infectious syphilis in 1985 remains higher than in previous years. Although over 75% of the infectious syphilis cases are reported in homosexual males, the increasing female syphilis morbidity may indicate a trend towards increasing heterosexual syphilis in Hawaii.

Hawaii reported 6 new AIDS cases in Calendar Year 1985. Thus, by the end of 1985, Hawaii has reported a total of 62 AIDS cases. Thirty-seven (37) of the 62 AIDS cases have passed away. Although the majority of AIDS cases have been reported from Oahu, AIDS cases have also been reported from Kauai, Maui and Hawaii.

VACCINE-PREVENTABLE DISEASES. Thirty-one cases of measles were reported during 1985, reflecting an increase in morbidity when compared with an average of five per year for the period 1980 through 1983. However, it also represents a dramatic decline from the previous year when 137 cases were reported, primarily from Kauai and Oahu.

Forty-five cases of rubella were confirmed during 1985, representing a significant increase over the average of nine cases per year since the last rubella epidemic in 1977. Rubella has traditionally occurred in a cyclical pattern with epidemic peaks occurring about every 8 to 9 years. However, the introduction and widespread use of rubella vaccine since 1969 has dramatically reduced these periodic morbidity peaks.

Twenty-four pertussis infections were reported during 1985. Most of the infections were reported in infants and preschool-age children, 17 (71%) were less than 5 years of age and 10 of these were less than 1 year old. Six children were hospitalized, all were less than five years old. Pertussis cases were reported from Hawaii, Kauai and Oahu.

There were 19 cases of mumps reported during 1985. Most (17) of the mumps infections were from Oahu, with the remaining two cases reported from Maui and Molokai. Two cases of tetanus were also reported this year. No cases of poliomyelitis or diphtheria were reported during 1985.

ZOONOTIC DISEASES. The downward trend in zoonotic disease incidence continued in 1985. Reported cases of leptospirosis dropped from 13 in 1984 to 8 in 1985. The number of cases of murine typhus declined from 5 reported in 1984 to 2 in 1985. Similarly, psittacosis/orntrosis case numbers decreased from 6 in 1984 to 2 in 1985.

TABLE 1
NUMBER OF CASES AND DEATHS FROM COMMUNICABLE DISEASES
STATE OF HAWAII, 1981, 1982, 1983, 1984, and 1985

Disease	1981		1982		1983		1984		1985	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Total	11,438	19	10,310	18	11,299	14	8,496	25	11,341	20
Amebiasis	29	-	33	-	18	-	15	-	6	-
Brucellosis	-	-	-	-	-	-	-	-	-	-
Chancroid	2	-	1	-	-	-	-	-	-	-
Chickenpox	809	-	820	-	1,442	-	834	-	1,494	-
Conjunctivitis, infectious	15	1	217	-	56	-	48	-	157	-
Diphtheria	-	-	-	-	-	-	-	-	-	-
Encephalitis, primary & Post-infectious	7	-	20	-	11	-	5	-	3	-
Gonorrhea	4,289	-	3,706	-	2,886	-	2,664	-	2,162	-
Hansen's Disease a/	49	2	59	1	46	-	105	5	31	-
Hepatitis A	124	-	81	-	55	-	33	1	109	-
Hepatitis B	95	2	87	3	73	1	74	4	135	4
Hepatitis non-A, non-B	-	-	9	-	15	-	12	-	10	-
Hepatitis unspecified	28	-	10	2	10	-	11	1	6	3
Hookworm b/	99	-	91	-	69	-	3	-	5	-
Influenza	96	1	222	-	494	1	328	-	1,009	-
Leptospirosis	26	-	29	-	16	-	13	-	12	-
Lymphogranuloma venereum	1	-	-	-	-	-	-	-	-	-
Malaria c/	11	-	7	-	2	-	5	-	17	-
Measles (Rubeola)	7	-	6	-	2	-	142	-	31	-
Meningitis, aseptic & viral	184	-	230	2	253	-	108	-	137	-
Meningitis, bacterial (All types) d/	41	3	51	3	66	2	39	3	38	3
Meningitis, meningococcal	(4)	-	(5)	(1)	(5)	-	(3)	-	(9)	-
Meningitis, unspecified	-	3	-	-	-	-	-	-	-	2
Mononucleosis, infectious	66	-	44	-	65	-	30	-	58	-
Mumps	26	-	21	-	20	-	22	-	19	-
Pertussis	3	-	28	-	3	-	102	-	24	-
Poliomyelitis	-	-	-	-	-	-	-	-	-	-
Rubella	15	-	9	-	1	-	5	-	44	-
Rubella, congenital	-	-	-	-	-	-	-	-	-	-
Salmonellosis	513	-	499	1	335	-	380	-	337	-
Scarlet fever & other strep infections	4,348	-	3,474	-	4,814	-	2,973	-	5,036	-
Shigellosis	214	-	95	-	134	-	165	-	138	-
Syphilis, primary & secondary	75	-	120	-	99	-	92	-	88	-
Syphilis, early latent	47	-	66	-	47	-	54	-	30	-
Syphilis, late & late latent	19	-	5	-	13	-	4	-	5	-
Tetanus	-	-	-	-	-	-	1	-	3	-
Trichinosis	-	-	5	-	1	-	1	-	1	-
Tuberculosis	197	7	252	6	236	10	218	11	189	8
Typhoid fever	2	-	4	-	4	-	5	-	5	-
Typhus fever, endemic	1	-	9	-	13	-	5	-	2	-

a/ 1981-1984 includes reinstated cases. 1985 excludes reinstated cases.
b/ DOH discontinued hookworm testing in 1984.
c/ Malaria acquired outside the State.
d/ Includes meningitis, meningococcal.

TABLE 2

SELECTED COMMUNICABLE DISEASE RATES PER 100,000 POPULATION
IN STATE OF HAWAII 1981-1985

Year	1981	1982	1983	1984	1985
Population	981,000	994,000	1,023,200	1,038,700	1,053,900
	Rates Per 100,000 Population				
All Communicable Diseases	1,166	1,037	1,104	818	1,076
Gonorrhea	437	373	282	257	205
Communicable Disease (Exclusive of Venereal Disease)	714	645	807	547	859
Scarlet Fever & Other Strep Infections	443	350	471	286	478
Influenza	10	22	48	32	96
Chickenpox	82	83	141	80	142
Mumps	3	2	2	2	2
Rubella	2	1	0	1	4
Measles (Rubeola)	1	1	0	14	3

TABLE 3
COMMUNICABLE DISEASE REPORT BY GEOGRAPHIC AREAS
STATE OF HAWAII, 1985

Disease	State		TOTAL CASES a/						Military Active Duty
	Number	Rate b/	Hawaii	Oahu	Kauai	Lanai	Maui	Molokai	
Total	11,341	1076.0	1,047	10,061	65	3	153	12	785
Amebiasis	6	0.6	-	4	-	-	2	-	-
Brucellosis	-	-	-	-	-	-	-	-	-
Chancroid	-	-	-	-	-	-	-	-	-
Chickenpox	1,494	141.8	224	1,181	12	3	73	1	10
Conjunctivitis, infec.	157	14.9	21	135	-	-	1	-	21
Diphtheria	-	-	-	-	-	-	-	-	-
Encephalitis, primary & post-infectious	3	0.3	-	3	-	-	-	-	-
Gonorrhea	2,162	205.1	88	2,040	13	-	17	4	556 c/
Hansen's disease d/	31	2.9	2	28	-	-	-	1	-
Hepatitis A	109	10.3	75	30	-	-	3	1	12
Hepatitis B	135	12.8	4	117	3	-	11	-	11
Hepatitis non-A, non-B	10	1.0	3	7	-	-	-	-	2
Hepatitis unspecified	6	0.6	-	3	-	-	3	-	3
Hookworm disease	5	0.5	-	5	-	-	-	-	-
Influenza	1,009	95.7	81	927	-	-	-	1	1
Leptospirosis	12	1.1	8	2	2	-	-	-	-
Lymphogranuloma venereum	-	-	-	-	-	-	-	-	-
Malaria (All imported)	17	1.6	-	17	-	-	-	-	16
Measles (Rubeola)	31	2.9	-	31	-	-	-	-	-
Meningitis, aseptic & viral	137	13.0	10	120	4	-	1	2	4
Meningitis, bacterial (All types) e/	38	3.6	3	33	-	-	2	-	-
Meningitis, meningo.	(9)	(0.8)	-	(9)	-	-	-	-	-
Meningitis, unspecified	-	-	-	-	-	-	-	-	-
Mononucleosis, infec.	58	5.5	6	52	-	-	-	-	14
Mumps	19	1.8	-	17	-	-	1	1	-
Pertussis	24	2.3	1	16	7	-	-	-	-
Poliomyelitis	-	-	-	-	-	-	-	-	-
Rubella	44	4.2	1	42	-	-	1	-	-
Rubella, congenital	-	-	-	-	-	-	-	-	-
Salmonellosis	337	32.0	24	282	9	-	21	1	24
Scarlet fever & other streptococcal infec.	5,036	477.8	478	4,553	2	-	3	-	89
Shigellosis	138	13.1	9	128	1	-	-	-	-
Syphilis, primary & sec.	88	8.3	1	87	-	-	-	-	12 c/
Syphilis, early latent	30	2.8	-	30	-	-	-	-	10 c/
Syphilis, late & late latent	5	0.5	-	4	-	-	1	-	-
Tetanus	3	0.3	-	2	1	-	-	-	-
Trichinosis	1	0.1	-	-	1	-	-	-	-
Tuberculosis	189	17.9	8	163	9	-	9	-	-
Typhoid fever	5	0.5	-	2	1	-	2	-	-
Typhus fever, endemic	2	0.2	-	-	-	-	2	-	-

a/ Resident cases (includes military on active duty)
b/ Number per 100,000 totalpopulation (1,053,900)
c/ Reported cases by military facilities
d/ New and transfer-in cases
e/ Includes meningitis, meningococcal

TABLE 4

VENEREAL DISEASE CASES REPORTED TO THE DEPARTMENT OF HEALTH BY DIAGNOSIS AND SOURCE OF REPORT

STATE OF HAWAII, 1985

Type of Disease		Total	Private Physicians, Hospitals and Institutions	Public Clinics, Hospitals and Institutions	Military
Total Cases	Number	2,285	841	863	581
	Percent	100	37	38	25
Syphilis:					
Primary and Secondary		88	41	35	12
Early Latent		30	8	10	12
Late and Late Latent		5	3	2	--
Gonorrhea		2,162	789	816	557
Other Venereal Diseases		--	--	--	--

TABLE 5

TOTAL PRIMARY AND SECONDARY SYPHILIS CASES BY AGE

STATE OF HAWAII 1980 - 1985

Age in Years	1980	1981	1982	1983	1984	1985
Total All Ages	131	75	120	99	92	88
0 - 14	--	1	--	--	--	--
15 - 19	8	2	4	4	7	4
20 - 24	25	14	31	37	25	16
25 - 29	32	14	30	17	23	23
30 - 34	18	17	18	19	11	16
35 - 39	17	11	18	7	8	16
40 - 44	14	4	8	7	10	5
45 - 49	6	8	4	3	4	4
50 and Over	8	4	6	3	4	2
Unknown	3	--	1	2	--	2

TABLE 6

TOTAL GONORRHEA CASES BY AGE

STATE OF HAWAII 1980 - 1985

Age in Years	1980	1981	1982	1983	1984	1985
Total All Ages	4383	4289	3706	2886	2664	2162
0 - 14	18	7	13	9	12	6
15 - 19	620	548	472	359	337	377
20 - 24	1758	1761	1441	1056	1032	842
25 - 29	870	892	808	649	586	419
30 - 34	436	508	448	351	288	198
35 - 39	210	208	186	143	162	109
40 - 44	99	103	102	64	66	52
45 - 49	58	51	37	37	23	13
50 and Over	58	54	47	37	41	26
Unknown	256	157	152	181	117	120

TABLE 7

NUMBER AND RATE PER 100,000 POPULATION OF TOTAL REPORTED GONORRHEA CASES

STATE OF HAWAII, 1970 - 1985

	15 - 19 YEARS			20 - 24 YEARS			25 - 29 YEARS			ALL AGES		
YEAR	CASES	POPULATION[1/]	RATE	CASES	POPULATION[1/]	RATE	CASES	POPULATION[1/]	RATE	CASES	POPULATION[1/]	RATE
1970	264	71,993	366.7	712	81,732	871.1	223	59,583	374.3	1,494	769,913	194.0
1971	383	75,600	506.6	888	87,900	1,010.2	326	62,500	521.6	1,975	801,000	246.6
1972	365	78,800	463.2	925	91,000	1,016.5	363	68,200	532.3	2,080	828,000	251.2
1973	482	81,500	591.4	987	94,000	1,050.0	488	72,200	675.9	2,408	851,000	283.0
1974	576	83,200	692.3	1,209	96,200	1,256.8	549	76,400	718.6	2,923	867,000	337.1
1975	649	84,700	766.2	1,279	98,800	1,294.5	646	81,000	797.5	3,126	884,000	353.6
1976	719	86,200	834.1	1,360	100,300	1,355.9	798	86,100	926.8	3,591	902,000	398.1
1977	733	86,400	848.4	1,633	101,800	1,604.1	940	87,400	1,075.5	4,256	916,000	464.6
1978	510	86,400	590.3	1,269	103,700	1,223.7	737	89,600	822.5	3,409	929,000	367.0
1979	711	86,900	818.2	1,714	105,200	1,629.3	908	92,700	979.5	4,373	950,000	460.3
1980	620	86,446	717.2	1,758	105,682	1,663.5	870	95,287	913.0	4,383	964,691	454.3
1981	548	87,900	623.4	1,761	107,500	1,638.1	892	96,900	920.5	4,289	980,900	437.3
1982	472	89,300	528.6	1,441	109,200	1,319.6	808	98,400	821.1	3,706	996,700	371.8
1983	359	91,700	391.5	1,056	112,100	942.0	649	101,100	641.9	2,886	1,023,200	282.1
1984	337	93,000	362.4	1,032	113,800	906.9	586	102,600	571.2	2,664	1,038,730	256.5
1985	377	94,400	399.4	842	115,500	729.0	419	104,100	402.5	2,162	1,053,900	205.1

Population data is an estimated total resident population based on figures taken from the 1980 census, which includes Armed Forces and their dependents in Hawaii, and residents temporarily absent, and excludes visitors present.

1/ Data shown only for computational convenience and not intended to imply accuracy beyond three significant figures.

The reported rates of Gonorrhea by selected age groups in Hawaii, according to their numerical ranking order are: 1) 20 - 24 years; 2) 25 - 29 years; and 3) 15 - 19 years.

TABLE 8

HAWAII RESIDENT GONORRHEA (GC) MORBIDITY BY YEAR (1974 - 1985),
CASE RATE PER 100,000 POPULATION, BY SEX, AND RESISTANCE TO PENICILLIN

YEAR	POPULATIONa/	TOTAL GC	RATE GC	# FEMALE GC	# MALE GC	% MALE GC	TOTAL PPNGb/
1974	867,000	2,923	337.1	1,176	1,747	60%	-
1975	884,000	3,126	353.6	1,209	1,917	61%	-
1976	902,000	3,591	398.1	1,285	2,306	64%	10
1977	916,000	4,256	464.6	1,533	2,723	64%	22
1978	929,000	3,409	367.0	1,164	2,245	66%	26
1979	950,000	4,373	460.3	1,400	2,973	68%	63
1980	964,691	4,383	454.3	1,381	3,002	68%	162
1981	980,900	4,289	437.3	1,259	3,030	71%	184
1982	996,700	3,706	371.8	1,157	2,549	69%	99
1983	1,023,200	2,886	282.1	1,014	1,872	65%	93
1984	1,038,730	2,664	256.5	920	1,744	65%	113
1985	1,053,900	2,162	205.1	872	1,290	60%	110

a/ Source: Hawaii State Department of Planning and Economic Development, "The Population of Hawaii, 1980: Final Census Results" Satistical Report 143, March 18, 1981.

b/ Abbreviation for Penicillinase-producing Neisseria gonorrhoeae the penicillin-resistant form of gonorrhea.

TABLE 9

HAWAII INFECTIOUS SYPHILIS MORBIDITY TREND
BY YEAR (1975 - 1985) AND SEX

YEAR	P & Sa/	ELb/	TOTAL	# FEMALES	# MALES	% MALES
1975	64	50	114	6	108	95
1976	99	58	157	22	135	86
1977	46	37	83	13	70	84
1978	51	34	85	11	74	87
1979	106	69	175	12	163	93
1980	131	74	205	7	198	97
1981	75	47	122	6	116	95
1982	120	66	186	9	177	95
1983	99	47	146	15	131	90
1984	92	54	146	28	118	81
1985	88	30	118	25	93	79

a/ P & S - Primary and secondary stage of syphilis are the infectious stages of syphilis when the lesions are present.

b/ Early Latent stage of syphilis is an early stage of syphilis under one year's duration.

TABLE 10

HAWAII ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS)
REPORTED BY YEAR, SEX, AND NUMBER OF KNOWN DEATHS
1983 - 1985

YEAR	TOTAL AIDS	# MALES	# FEMALES	KNOWN DEATHS
1983	10	9	1	9
1984	16	15	1	10
1985	36	35	1	18

HANSEN'S DISEASE IN HAWAII
1985

Hawaii continues to have the highest incidence and prevalence rates for Hansen's disease within the United States.

However, in 1985 of the 31 people who were newly diagnosed with the disease, only two were Hawaii-born. The remaining 29 cases were foreign-born (Tables 6 and 9). Of these, 20 came from the Philippines, 3 from Samoa, 3 from other Pacific Islands, and 1 each from Australia, China, and Vietnam.

Of the foreign-born, 7 had the onset of illness before coming to Hawaii and 22 developed symptoms here. Of the 7 cases, only 1 had not been previously diagnosed and the time interval between onset and diagnosis was 120 months. Of the 22 cases with symptoms developing here, the median time interval between onset and diagnosis was 5 months (Range: 0-179 months). Of the 31 new cases, 15 were paucibacillary (I,TT,BT) and 16 multibacillary (BB-LL). Of these 16, 6 were borderline lepromatous (BL), 8 were lepromatous (LL), and the remaining 2 were mid-borderline (BB).

Table 5 shows the age distribution at time of registration in Hawaii. It peaks in the over 40 age group with the 40-49 age group having the highest age-specific incidence.

In addition, 4 cases were returned to registry (these being cases who were reviewed and found to have inadequate treatment and/or surveillance) and 52 cases were removed from registry.

All newly diagnosed cases are now assigned to the Hansen's Disease Community Program. This program provides for treatment and follow-up of all patients (545) who are not on the Kalaupapa or Hale Mohalu registry. It provides a system of care through a network of services including private physicians, Public Health Nurses, and various community resources,with the program coordinating and monitoring the patient's care. Household contacts of known cases are also followed and periodically examined to provide for the earliest possible detection of the disease in this at-risk population.

For patients requiring more intensive care, inpatient care is available at Hale Mohalu at Leahi, on Oahu. This includes patients such as those with severe reactions or complications and the older long-term patient who developed disabilities prior to the availability of effective drug therapy. Also, 101 cases are still on the Kalaupapa registry and retain the privilege of residing at the Kalaupapa community or being admitted to the hospital there whenever necessary.

TABLE 1
TOTAL HANSEN'S DISEASE PATIENTS REGISTERED BY REGISTER STATUS AND YEAR
STATE OF HAWAII 1978-1985

Register Status	1978	1979	1980	1981	1982	1983	1984	1985
Total Cases on Register January 1.....	421	437	458	474	506	550	578	661
New cases added during the year	31	33	34	49	49	41	43	31
Formerly diagnosed cases returned to register.....	2	2	3	4	11	5	58	4
Other additions (registry correction).....	-	-	-	-	-	-	3	7
Removed during year.....	17	14	21	21	16	18	21	52
Deaths.....	5	5	8	6	4	6	15	10
Left the State.....	10	1	4	1	12	12	5	39
Discharged from further surveillance.....	2	8	9	14	-	-	-	-
Other deductions (registry correction).....	-	-	-	-	-	-	1	3
Total cases on register December 31.....	437	458	474	506	550	578	661	651

TABLE 2
HANSEN'S DISEASE PATIENTS, KALAUPAPA REGISTRY STATUS
STATE OF HAWAII 1978-1985

Register Status	1978	1979	1980	1981	1982	1983	1984	1985
Total patients-Kalaupapa Registry January 1.....	128	127	124	119	115	112	110	101
Deaths.....	1	1	5	4	3	2	8	0
Transfer from Registry.....	1	2	-	-	-	-	-	-
Transfer to Registry.....	1	-	-	-	-	-	-	-
Left the State.....	-	-	-	-	-	-	-	-
Other (Registry correction-deduction).....	-	-	-	-	-	-	1	-
Total patients - Kalaupapa Registry - December 31.....	127	124	119	115	112	110	101	101
Reactivated cases..... (criteria: positive smears)	14	5	5	6	6	6	2	0

TABLE 3
TOTAL CASES OF HANSEN'S DISEASE REGISTERED BY TYPE, LOCATION AND YEAR
STATE OF HAWAII, 1978 - 1985

Type and Location	1978	1979	1980	1981	1982	1983	1984	1985
Total Cases on Registry 12/31	437	458	474	506	550	578	661	651
Medically Released	434	458	474	506	550	578	661	651
At Home	304	328	349	385	432	462	555	545
Kalaupapa	127	124	119	115	112	110	101	101
Hale Mohalu	3	6	6	6	6	6	5	5
Hospital Care								
Total Days	42,253	40,471	39,996	41,150	41,071	39,288	36,604	35,159
Kalaupapa	34,961	34,741	33,971	34,320	34,565	33,745	30,419	29,006
Hale Mohalu	7,292	5,730	6,025	6,830	6,506	5,543	6,185	5,962
Other Hospitals	---	---	---	---	---	---	---	191
Total Contacts December 31	1,088	1,110	1,400	1,600	1,600	2,000	1,850	2,104

TABLE 4
NEW CASES OF HANSEN'S DISEASE BY ISLAND OF RESIDENCE AND YEAR
STATE OF HAWAII, 1978-1985

	1978	1979	1980	1981	1982	1983	1984	1985
ALL ISLANDS	31	33	34	49	49	41	43	31
OAHU	27	25	24	35	40	37	33	28
HAWAII	1	2	2	6	7	3	1	2
MAUI	1	1	4	6	1	-	3	-
KAUAI	1	5	4	2	1	1	4	-
MOLOKAI	-	-	-	-	-	-	1	1
LANAI	1	-	-	-	-	-	1	-

TABLE 5
NEW CASES OF HANSEN'S DISEASE BY AGE GROUP AND YEAR
STATE OF HAWAII, 1978 - 1985

Age in Years	1978	1979	1980	1981	1982	1983	1984	1985
ALL AGES	31	33	34	49	49	41	43	31
0-9	1	1	-	1	1	-	-	-
10-19	5	9	5	6	12	2	5	6
20-29	9	5	9	11	10	9	6	5
30-39	6	2	7	4	8	1	7	2
40-49	3	6	2	5	4	9	1	8
50-59	2	7	2	10	4	8	7	5
60-69	5	3	6	7	5	6	12	2
70- and over	-	-	3	5	5	6	5	3

FIGURE 1
NEW CASES OF HANSEN'S DISEASE BY AGE GROUP
STATE OF HAWAII, 1985

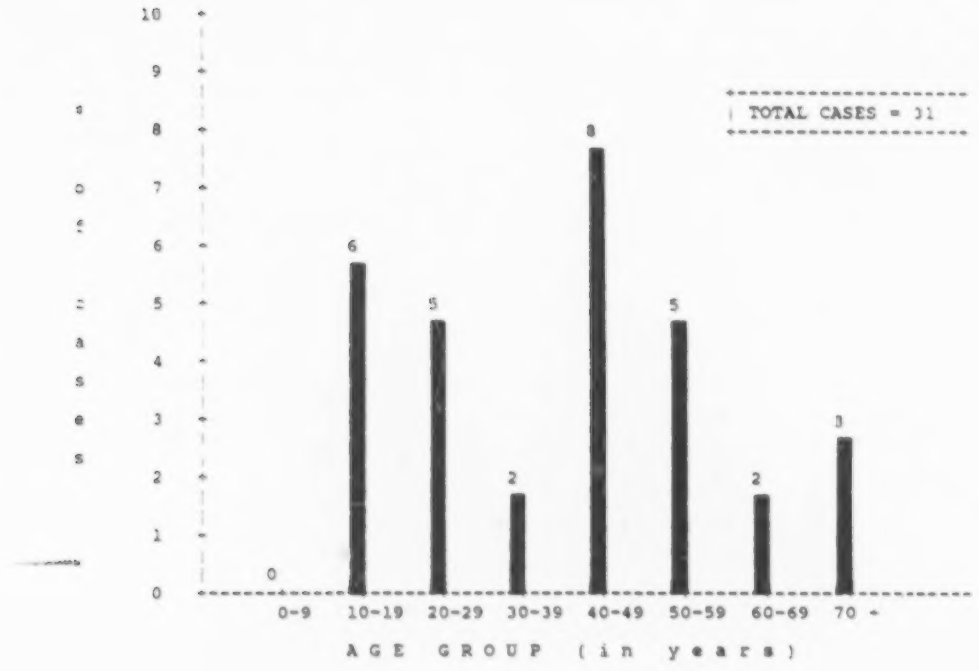


TABLE 6
NEW CASES OF HANSEN'S DISEASE BY PLACE OF BIRTH AND YEAR OF REGISTRATION
STATE OF HAWAII, 1978-1985

	TOTAL	%	1978	1979	1980	1981	1982	1983	1984	1985
HAWAII	25	(8.1)	3	-	3	9	2	4	2	2
SAMOA	47	(15.1)	10	5	5	6	5	8	5	3
MICRONESIA	9	(2.9)	-	-	-	1	4	2	2	-
OTHER PACIFIC ISLANDS	6	(1.9)	1b/	-	1d/	-	1a/	-	-	3a/d/d
PHILIPPINES	201	(64.6)	16	24	23	33	35	21	29	20
VIETNAM	4	(1.3)	-	2	-	-	1	-	-	1
U.S. MAINLAND	9	(2.9)	1	1	2	-	-	2	3	-
OTHER	10	(3.2)	-	1c/	-	-	1e/	4e/ f/g/h/	2i/ k/	2h/j/
ALL	311	(100)	31	33	34	49	49	41	43	31

a/Tonga
b/Fiji
c/Canada
d/Marshall Islands
e/India
f/Laos
g/Portugal
h/China
i/Japan
j/Australia
k/not available

TABLE 7
INCIDENCE OF HANSEN'S DISEASE BY ISLAND OF RESIDENCE, 1985

ISLAND	1980 POPULATION*	# OF CASES	RATE PER 100,000
ALL ISLANDS	964,691	31	3.2
OAHU	762,534	28	3.7
HAWAII	92,053	2	2.2
MAUI	62,823	-	-
KAUAI	38,856	-	-
MOLOKAI	6,049	1	16.5
LANAI	2,119	-	-

*Source: Hawaii State Department of Planning and Economic Development, The State of Hawaii Data Book 1985, (November 1985), table 5.

TABLE 8
AGE-SPECIFIC INCIDENCE OF HANSEN'S DISEASE IN HAWAII, 1985

AGE GROUP	NO. OF CASES	POPULATION*	RATE PER 100,000
0-9	-	150,905	-
10-19	6	161,316	3.7
20-29	5	200,969	2.5
30-39	2	148,262	1.3
40-49	8	92,708	8.6
50-59	5	96,587	5.2
60-69	2	66,947	3.0
70+	3	46,997	6.4
ALL	31	964,691	3.2

*Source: Hawaii State Department of Planning and Economic Development, The State of Hawaii Data Book 1985, (November 1985), table 18.

FIGURE 2
AGE-SPECIFIC INCIDENCE RATE OF HANSEN'S DISEASE
IN HAWAII, 1985
(per 100,000)

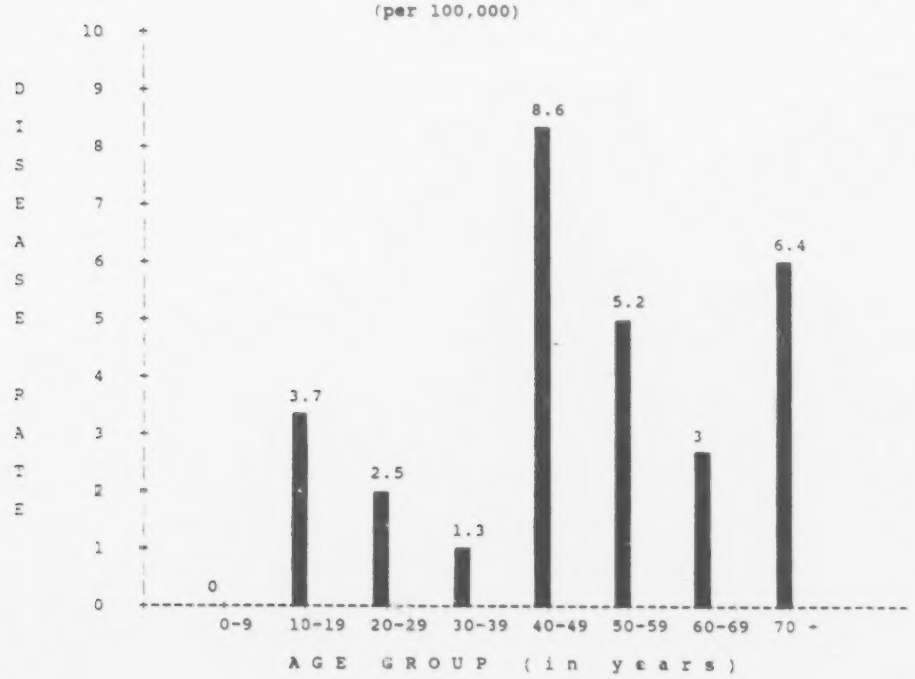


TABLE 9
INCIDENCE OF HANSEN'S DISEASE IN HAWAII, HAWAII-BORN VERSUS FOREIGN-BORN, 1985

	NO OF CASES	POPULATION*	RATE PER 100,000
HAWAII-BORN	2	557,990	.4
FOREIGN-BORN	29	137,016	21.2
OTHER U.S.	-	269,685	-
ALL GROUPS	31	964,691	3.2

*Source: Hawaii State Department of Planning and Economic Development, The State of Hawaii Data Book 1985, (November 1985), table 29.

TABLE 10
NEW CASES OF HANSEN'S DISEASE BY PLACE OF RESIDENCE AT ONSET OF SYMPTOMS STATE OF HAWAII, 1985

RESIDENCE	NO. OF CASES
HAWAII	24
OTHER U.S.	1
PHILIPPINES	3
MARSHALL ISLANDS	1
SAMOA	1
AUSTRALIA	1
TOTAL	31

TABLE 11
SEX-SPECIFIC INCIDENCE OF HANSEN'S DISEASE IN HAWAII, 1985

	NO. OF CASES	POPULATION*	RATE PER 100,000
MALES	20	494,683	4.0
FEMALES	11	470,008	2.3
ALL	31	964,691	3.2

*Source: Hawaii State Department of Planning and Economic Development, The State of Hawaii Data Book 1985, (November 1985), table 18.

ANNUAL SUMMARY 1985

The Tuberculosis Branch is responsible for the surveillance and control of tuberculosis in the State. The Branch maintains the State Tuberculosis Register, monitors tuberculosis care throughout the State, provides outpatient treatment, and maintains an active program of case detection and preventive treatment. The majority of treatment activities are provided at the Lanakila Health Center Chest Clinic on Oahu. Services are also delivered at rural clinics on Oahu. Chest clinics on Hawaii, Maui, and Kauai are conducted jointly with the Public Health Nursing Branch. Other tuberculosis care, centered around delivery of inpatient services, is provided at Leahi, Kula, and Samuel Mahelona Hospitals which are not under the control of the Tuberculosis Branch.

In 1985 there were 189 new cases of tuberculosis in Hawaii, a decrease of 13.3% from the 218 cases reported in 1984. The number of cases with positive bacteriology increased by 8%, however, from 100 cases in 1984 to 108 cases in 1985. Table 3 presents the demographic characteristics of our tuberculosis cases. Of the 189 cases, 147 or 77.8%, occurred in our foreign-born population. Seventy-three of these 147 or half of the foreign-born patients had been in the State for less than one year. The number of cases in Hawaii-born individuals increased from 28 to 32. The number of U.S. mainland-born individuals with newly diagnosed tuberculosis increased from 2 to 10 and accounted for the increase in bacteriologically confirmed cases as nine of the ten had positive cultures. There was no apparent pattern to explain the increase in the number of mainland-born cases; several of them were recent arrivals in Hawaii.

As noted in Table 7, 108 cases were in the Filipino ethnic group, six of whom were Hawaii born and 101 of whom were born in the Philippine Islands. Fifty-eight of those born in the Philippines had been in Hawaii for less than one year at the time of diagnosis. Among the immigrant cases, 70.7% were in those from the Philippines, in keeping with the observation that 65.3% of immigrants entering the State in 1985 came from the Philippines. The prevalence was 1,397 per 100,000 (about 1.4%) for new immigrants from the Philippines. High rates were also noted for new immigrants from Korea and China, while the rate in new Vietnam-born immigrants was considerably lower though still notable.

Extensive and active screening programs include tuberculin skin testing performed by the Tuberculosis Branch and also by the Public Health Nursing Branch, X-ray examinations, epidemiologic investigation, and review of visa X-rays of all entering immigrants. Ninety-seven of the 189 cases (51.3%) were detected by one of these methods. As shown in Table 6, 36 of the immigrants with tuberculosis had been admitted with a Class A visa requiring a waiver of excludability. Twenty-one entered with a Class B visa, having been diagnosed in their country of origin as having inactive tuberculosis. The remainder had not been known to have any form of tuberculosis prior to immigration. Thirty-six cases were detected through Department of Health survey activities.

Efforts continue to shift our screening procedure from X-rays to skin tests. Nevertheless, 26,292 screening X-rays were taken, a decrease of 4.8% from 1984, of which 23,436 were taken at Lanakila Health Center. Over 18,000 tuberculin skin tests were administered and read. Analysis of cases in terms of reason for coming for screening and by occupational status is underway in an attempt to identify high risk groups other than newly arrived immigrants. This should permit the Branch to direct screening activities toward these groups.

An important part of screening and contact investigation activity is the administration of chemoprophylaxis to those found to be infected but without disease. Preventive therapy was initiated in 1,904 patients in 1985, an increase of (13.2%) from the previous year.

There were 3,203 newly registered patients admitted to the Lanakila Health Center Chest Clinic, 4.6% more than in 1984. A total of 6,839 individuals received services for tuberculosis at Lanakila Health Center in 1985. Their care involved a total of 24,447 patient visits.

There were 15 reactivations (Table 8), approximately the same as in 1984. There were 6 cases in children below 10 years of age (Table 7) while only one case was found in this age group the previous year. Only one of these 6 children had a positive culture and this was a military dependent who was flown here from Korea because of illness. Another child was born on the mainland but had been in the Philippines for 16 months prior to coming to Hawaii. A third child was a recent immigrant from the Philippines. Another child had traveled to Pakistan.

Table 10 shows that there were four tuberculosis deaths in 1985, identical to the total in 1984. The same table shows that the number of new cases reported including those with current, suspected, and past disease decreased from 1984. This still represents a large group of people who require various services which may include initial evaluation, follow-up, and contact screening.

Hawaii's tuberculosis rate remains among the highest in the United States at 17.9 per 100,000 in comparison with a national rate of 9.1 per 100,000. The rates for those born in Hawaii (4.9 per 100,000) and on the mainland (4.3 per 100,000) are well below the national rate while that in our foreign born population is 98.2 per 100,000 (Table 3). These data, together with the identification of many of the cases shortly after arrival in our State, demonstrate that a strong tuberculosis control program is necessary and that our program is effective in preventing transmission within the State. As long as we continue to have a high rate of immigration, we will have a high rate of tuberculosis, as most of our immigrants come from countries with a very high prevalence of tuberculosis. Nevertheless, continuation of a vigorous screening program with increasing use of preventive treatment will continue to allow immigrants to be united with their family members here without posing a threat to the population of the State of Hawaii.

TABLE 1

X-RAY SURVEY ACTIVITIES FOR TUBERCULOSIS BY COUNTY
STATE OF HAWAII, 1985

Geographic Area	Total Screening Films Taken	Retake Films Needed	X-Rays Consistent With Current or Past Tuberculosis Infection					
			Total		Tuberculosis Diagnosed Current Disease		Tuberculosis Not Confirmed	
			Number	Rate*	Number	Rate*	Number	Rate*
State of Hawaii	26,292	1,188	157	6.0	23	.9	134	5.1
County of Honolulu	24,891	1,148	156	6.3	23	.9	133	5.3
Mobile Units	1,455	43	6	4.1	1	.7	5	3.4
Lanakila Health Center	23,436	1,105	150	6.4	22	.9	128	5.5
Routine Survey	14,372	536	59	4.1	11	.8	48	3.3
Medical Referrals	1,041	90	14	13.4	1	1.0	13	12.5
Other Agency Referrals	6,856	429	67	9.8	10	1.5	57	8.3
Tuberculin Testing Program - PHN	1,107	47	7	6.3	-	-	7	6.3
Extensions of Stay of Non-Immigrant Visas	22	-	-	-	-	-	-	-
LOPD Discharged Cases	38	3	3	78.9	-	-	3	78.9
County of Hawaii	1,401	40	1	.7	-	-	1	.7

*Per 1,000 survey films

TABLE 2

TUBERCULOSIS CASES REPORTED BY GEOGRAPHIC AREA OF RESIDENCE
STATE OF HAWAII, 1985

Geographic Area of Residence	TUBERCULOSIS CASES REPORTED			
	1984		1985	
	Number	Rate a/	Number	Rate a/
State of Hawaii	218	21.0	189	17.9
County of Honolulu	195	24.3	163	20.0
City of Honolulu	118	30.6	100	25.6
Rest of Oahu	77	18.4	63	14.9
County of Hawaii	7	6.5	8	7.3
County of Maui b/	12	14.4	9	10.7
County of Kauai	4	9.0	9	19.9

a/ Per 100,000 total population

b/ Includes Kalawao County

TABLE 3

TUBERCULOSIS CASES BY PLACE OF BIRTH AND LENGTH OF RESIDENCE
AND NUMBER OF PERSONS ADMITTED TO HAWAII WITH PERMANENT VISAS
STATE OF HAWAII, 1985

Birthplace or Time in Hawaii	1984			1985		
	Number	Percent	Rate a/	Number	Percent	Rate a/
Total	218	100.0	21.0	189	100.0	17.9
Foreign-Born	188	86.3	127.5	147	77.8	98.2
1 year or less	102	46.8	-	73	38.6	-
Over 1 year - 2 years	13	6.0	-	4	2.1	-
Over 2 years - 5 years	19	8.7	-	20	10.6	-
Over 5 years	54	24.8	-	50	26.5	-
Unknown time in State	-	-	-	-	-	-
Mainland-Born	2	.9	.9	10	5.3	4.3
Hawaii-Born	28	12.8	4.3	32	16.9	4.9
Birthplace Unknown	-	-	-	-	-	-
U.S.-Born Rate (Hawaii + Mainland)	30	13.7	3.4	42	22.2	4.7
U.S. National Average Rate	-	-	9.4	-	-	-
Number of Persons Admitted to Hawaii With Permanent Visas c/	5,264			5,569		

a/ Rate - Cases per 100,000 total civilian population; rate for foreign-born, mainland-born, and Hawaii-born are estimates.
b/ Foreign-born includes people coming to Hawaii from both American and Western Samoa.
c/ Persons admitted to Hawaii with permanent visas include only individuals whose port of entry is Honolulu.

TABLE 4

TUBERCULOSIS CASES BY LOCATION OF DISEASE
AND COUNTY OF RESIDENCE, STATE OF HAWAII, 1985

Location of Disease	State of Hawaii		COUNTY OF RESIDENCE							
			Honolulu		Hawaii		Maui*		Kauai	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	189	100.0	163	100.0	8	100.0	9	100.0	9	100.0
Pulmonary	164	86.8	141	86.5	6	75.0	8	88.9	9	100.0
Extrapulmonary	25	13.2	22	13.5	2	25.0	1	11.1	-	-
Pleural	3	1.6	3	1.8	-	-	-	-	-	-
Lymphatic	6	3.2	6	3.7	-	-	-	-	-	-
Cervical	6	3.2	6	3.7	-	-	-	-	-	-
Intrathoracic	-	-	-	-	-	-	-	-	-	-
Other Lymphatic	-	-	-	-	-	-	-	-	-	-
Unknown	-	-	-	-	-	-	-	-	-	-
Bone and/or Joint	1	.5	-	-	1	12.5	-	-	-	-
Genitourinary	2	1.0	1	.6	1	12.5	-	-	-	-
Miliary	4	2.1	3	1.8	-	-	1	11.1	-	-
Meningeal	4	2.1	4	2.5	-	-	-	-	-	-
Peritoneal	2	1.1	2	1.2	-	-	-	-	-	-
Other	3	1.6	3	1.8	-	-	-	-	-	-
Site Not Stated	-	-	-	-	-	-	-	-	-	-

*Includes Kalawao County

TABLE 5

TUBERCULOSIS CASES BY SOURCE OF REPORT AND COUNTY OF RESIDENCE
STATE OF HAWAII, 1985

Source of Report	State of Hawaii		COUNTY OF RESIDENCE							
			Honolulu		Hawaii		Maui*		Kauai	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	189	100.0	163	100.0	8	100.0	9	100.0	9	100.0
Health Department	114	60.3	96	58.9	3	37.5	7	77.8	8	88.9
Private Physician	54	29.6	49	30.1	3	37.5	2	22.2	-	-
Tuberculosis Hospital or OPD	8	4.2	7	4.3	1	12.5	-	-	-	-
General Hospital or OPD	7	3.7	6	3.7	1	12.5	-	-	-	-
Tripler Army Hospital or VA	5	2.7	4	2.4	-	-	-	-	1	11.1
Death Certificate	-	-	-	-	-	-	-	-	-	-
Other	1	.5	1	.6	-	-	-	-	-	-

*Includes Kalawao County

TABLE 6

TUBERCULOSIS CASES BY REASON FOR EXAMINATION AND COUNTY OF RESIDENCE
STATE OF HAWAII, 1985

Reasons for Examination	State of Hawaii		COUNTY OF RESIDENCE							
			Honolulu		Hawaii		Maui*		Kauai	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	189	100.0	163	100.0	8	100.0	9	100.0	9	100.0
Health Department Survey	36	19.1	36	22.1	-	-	-	-	-	-
Contact & Source Investigation	4	2.1	4	2.4	-	-	-	-	-	-
Chest Clinic Follow-up	4	2.1	4	2.4	-	-	-	-	-	-
Positive Reactor or Converter	7	3.7	5	3.1	1	12.5	1	11.1	-	-
Extension of Stay, Non-Immigrant Visa	-	-	-	-	-	-	-	-	-	-
Aliens with Waiver of Excludability for Tuberculosis	36	19.1	30	18.4	2	25.0	3	33.3	1	11.1
Aliens with Tuberculosis Not Considered Active	21	11.1	20	12.3	-	-	1	11.1	-	-
Review of Other Visa Films & Evaluation of Foreign-born	-	-	-	-	-	-	-	-	-	-
Symptoms or Illness	67	35.5	57	35.0	3	37.5	2	22.2	5	55.6
General Hospital & PMD X-ray Findings	12	6.3	6	3.7	2	25.0	1	11.1	3	33.3
Death Certificate	-	-	-	-	-	-	-	-	-	-
Other	2	1.0	1	.6	-	-	1	11.1	-	-
Unknown	-	-	-	-	-	-	-	-	-	-

*Includes Kalawao County

TABLE 7

TUBERCULOSIS CASES BY AGE, RACE AND SEX
STATE OF HAWAII, 1985

Age Group	ALL RACES			Caucasian		Hawaiian and part Hawaiian		Chinese		Filipino		Japanese		Korean		Viet., Cam., Lao		Other*	
	Total	Male	Female	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total	189	103	86	7	6	3	1	4	8	57	51	14	2	8	11	5	3	5	4
0 - 4	3	2	1	-	-	-	1	-	-	1	-	-	-	1	-	-	-	-	-
5 - 9	3	1	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-
10 - 19	9	4	5	-	-	-	-	-	-	2	3	-	-	1	1	-	-	1	1
20 - 29	31	17	14	-	-	-	-	-	1	7	9	2	-	4	4	2	-	2	-
30 - 39	29	15	14	1	-	-	-	-	2	8	5	1	-	1	5	3	1	1	1
40 - 49	27	14	13	2	2	2	-	1	2	9	7	-	-	-	-	-	1	-	1
50 - 59	20	9	11	1	1	-	-	-	-	6	8	2	-	-	-	-	1	-	1
60 - 69	31	21	10	2	-	1	-	2	2	11	8	5	-	-	-	-	-	-	-
70 and over	36	20	16	1	3	-	-	1	1	13	9	4	2	1	1	-	-	-	-

*Other: Tonga 2, 1 each - American Samoan, Black, Fijian, Guamanian, Indonesian, Mexican-Indian, and Pakistani.

TABLE 8

REACTIVATIONS REPORTED BY BACTERIOLOGY AND NUMBER OF REACTIVATIONS
BY COUNTY, STATE OF HAWAII, 1985

County	Total	Bacteriology			Number of Reactivations		
		Positive	Negative	Unknown	1	2	*3
Total	15	10	5	-	14	1	-
Honolulu	12	8	4	-	12	-	-
Hawaii	1	1	-	-	1	-	-
Maui*	-	-	-	-	-	-	-
Kauai	2	1	1	-	1	1	-

*Includes Kalawao County

TABLE 9

REACTIVATIONS REPORTED BY AGE, SEX AND COUNTY, STATE OF HAWAII, 1985

Age Group	State of Hawaii			Honolulu		Hawaii		Maui*		Kauai	
	Total	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Total	15	5	10	2	10	1	-	-	-	2	-
Under 5	-	-	-	-	-	-	-	-	-	-	-
5 - 14	-	-	-	-	-	-	-	-	-	-	-
15 - 24	1	-	1	-	1	-	-	-	-	-	-
25 - 44	4	1	3	1	3	-	-	-	-	-	-
45 - 64	5	2	3	-	3	1	-	-	-	1	-
65 and Over	5	2	3	1	3	-	-	-	-	1	-

*Includes Kalawao County

TABLE 10

NUMBER OF TUBERCULOSIS DEATHS, AND NEW CASES REPORTED BY YEAR
STATE OF HAWAII, 1930, 1940, 1950, 1960, 1970, 1980 THROUGH 1985

Year	Deaths	New Cases Reported a/	Tuberculosis Cases b/
1930	379	1,060	1,060
1940	257	717	717
1950	114	743	339
1960	13	462	293
1970	13	733	270
1980	5	810	167
1981	4	885	197
1982	2	903	252
1983	2	768	236
1984	4	826	218
1985	4	714	189

a/ Cases reported with current disease, suspects and past disease.
b/ Cases reported with current disease.

DENTAL HEALTH DIVISION

DENTAL HEALTH DIVISION

DEPARTMENT OF HEALTH ANNUAL REPORT
1985

SUMMARY

The Dental Health Division is responsible for conducting public health programs for the prevention and control of dental diseases. Other than planning and conducting surveillance activities, it implements community programs aimed at preventing tooth decay, gum disease and treating oral diseases that exist among groups of needy people.

Direct patient treatment services are provided to institutionalized and other qualified needy persons in the Hospital Dentistry and Community Services Program. In the 1985-86 fiscal year, five full-time clinical dentists were employed in the program. A total of 2,496 patients were treated at Waimano Training School and Hospital, Hawaii State Hospital, Maluhia Hospital, Leahi Hospital, ten community-based clinics and nine neighbor island long-term care facilities. The dentists this year treated 87 more patients as compared to the year before. In addition, the percentage of patients who were treated to completion increased from 87% last year to 90% this year. The number of topical fluoride applications provided dropped from 777 to 350 and indicates that more older people are now being treated in the program. Also, due to a larger adult population attending the program, the number of dentures provided increased by 24%. An average of 1.4 fillings were placed in each patient. These accomplishments amount to an approximate overall increase in productivity of 5% over the previous year.

The Dental Hygiene Program offered free topical fluoride applications to 123,000 school children. This program is responsible for a reduction of tooth decay by approximately 25%. The number of children given topical applications dropped this year by 6,641 or nine percent complared to last year. Difficulties with recruiting dental hygienists for neighbor islands is a major problem coupled with the deletion of one dental hygienist position by the Legislature annually for the last three years. Three hygienists employed on the neighbor islands resigned last year. No replacements for them were found. Attempts are being made to provide additional incentives for mainland hygienists to fill positions on neighbor islands.

Dental health education was provided to 11,104 people through classroom lectures and assemblies. Chairside dental health instructions were also provided to the 67,472 school children while they were receiving topical fluoride applications.

TABLE 1

SUMMARY OF DENTAL HEALTH SERVICES

STATE OF HAWAII, FISCAL YEAR 1984 - 1985

Type of Services	Number Served
Prevention and Detection	
Number of School Children Given Topical Fluoride Applications	67,472
Number of School Children Referred to Private Dentists	89,025
Number of School Children Given Dental Health Education	11,104
Treatment	
Number of Persons Treated in Institutions	528
Number of Persons Treated in Community-centered Facilities	1,486
Number of Persons Treated in County/State Hospitals	482

TABLE 2

DISTRIBUTION OF DENTAL HYGIENE SERVICES BY COUNTIES
STATE OF HAWAII, FISCAL YEAR 1984-1985

Year and County	Number of Schools Served		Number of Children Served		
	Public	Private	Number of Dental Inspections and Follow-up	Number of Fluoride Applications	Dental Health Education
1983-1984 ..... STATE	194	124	107,963	74,113	85,239
1984-1985 ..... STATE	196	152	128,319	67,472	78,576
OAHU	152	125	116,618	58,426	69,530
HAWAII	27	9	8,985	7,321	7,321
KAUAI	12	18	1,789	1,483	1,483
MAUI-MOLOKAI-LANAI	5	0	927	242	242

TABLE 3

DENTAL TREATMENT STATUS OF CHILDREN IN 181 SCHOOLS BY AREAS
STATE OF HAWAII, 1984-1985

Area	Number of Schools Reported	Enrollment	Number of Children in Grades Kindergarten - 12th			Percent Completed and Receiving Treatment
			Completed Treatment	Receiving Treatment	No Treatment During School Year	
STATE 1983-1984	184	120,911	5,720	39,656	75,535	37.5
STATE 1984-1985	181	123,803	5,369	42,303	76,131	38.5
HONOLULU CITY	54	33,350	2,357	11,939	19,034	42.9
RURAL OAHU	92	71,737	1,556	24,777	45,404	36.7
Central Oahu	34	27,991	599	9,993	17,399	37.8
Leeward Oahu	31	26,797	537	8,702	17,558	34.5
Windward Oahu	27	16,949	420	6,082	10,447	38.4
HAWAII	26	15,804	727	4,565	10,512	33.5
KAUAI	4	1,384	724	209	451	67.4
MAUI	5	1,528	5	793	730	52.2

TABLE 4

TREATMENT DATA
HOSPITAL DENTISTRY & COMMUNITY SERVICES BRANCH
STATE OF HAWAII, F.Y. 1984 - 1985

CLINICS	PATIENTS			SELECTED PROCEDURES								
	No. of New Patients	Adults	Minors	No. Completed Treatment	Examinations	Radiographs	Prophylaxis	Topical Fluoride Application	Fillings	Extractions	Crowns	Dentures
TOTAL	2,496	1,901	595	2,254	3,153	3,540	1,753	353	3,561	1,213	133	135
Institutional	528	515	13	675	800	635	649	0	767	272	43	33
Community-Centered	1,486	931	555	1,176	1,687	2,905	952	350	2,726	731	90	99
County/State Hospitals	482	455	27	403	666	0	152	3	68	210	0	3

ENVIRONMENTAL PROTECTION
AND
HEALTH SERVICES DIVISION

SUMMARY

The Pollution Investigation and Enforcement Branch of the Environmental Protection and Health Services Division is responsible for preserving and improving the quality of the environment throughout the State. Monitoring and enforcement programs are the principle vehicles through which pollution control rules are implemented in the fields of air; water, including all non-potable coastal and fresh waters; and solid waste.

The branch is involved in the following activities:

1. Determination of violations and enforcement of pollution control rules.

2. Monitoring of ambient conditions with air and water quality standards as control measures.

3. Inspection of conditions and operating procedures at landfills and sewer treatment plants.

4. Investigation of complaints by the public and conducting special studies in critical areas of environmental concern.

TABLE 1
SUMMARY OF AIR QUALITY DATA
STATE OF HAWAII, 1984
(24-Hour Sampling)

Sampling Stations	Micrograms Per Cubic Meter (ug/m^3)							
	Total Suspended Particulates				Sulfur Dioxide [a]			
	No. of Samples	Annual Minimum	Annual Maximum	Arith. Average	No. of Samples	Annual Minimum	Annual Maximum	Arith. Average
Barbers Point - Oahu [b]	44	24	138	52	...	...	...	...
Downtown, Honolulu - Oahu	59	10	48	24	58	<5	<5	<5
Pearl City - Oahu	47	16	62	35	...	...	...	...
Liliha - Oahu	59	11	254	46	...	...	...	...
Wainanalo - Oahu	57	13	52	26	...	...	...	...
Kahului - Maui [c]	36	26	105	57	32	<5	31	6.2
Kihei - Maui [c]	34	16	190	54	...	...	...	...
Hilo - Hawaii [c]	35	8	28	6	41	<5	6	<5
Kona - Hawaii [d]	34	6	22	12	31	<5	8	<5
Lihue - Kauai [b]	46	17	76	34	...	...	...	...

[a] SO_2 sampling discontinued on January 1, 1985 at the Barber's Point and Lihue Stations.

[b] Data based on 9 months of sampling.

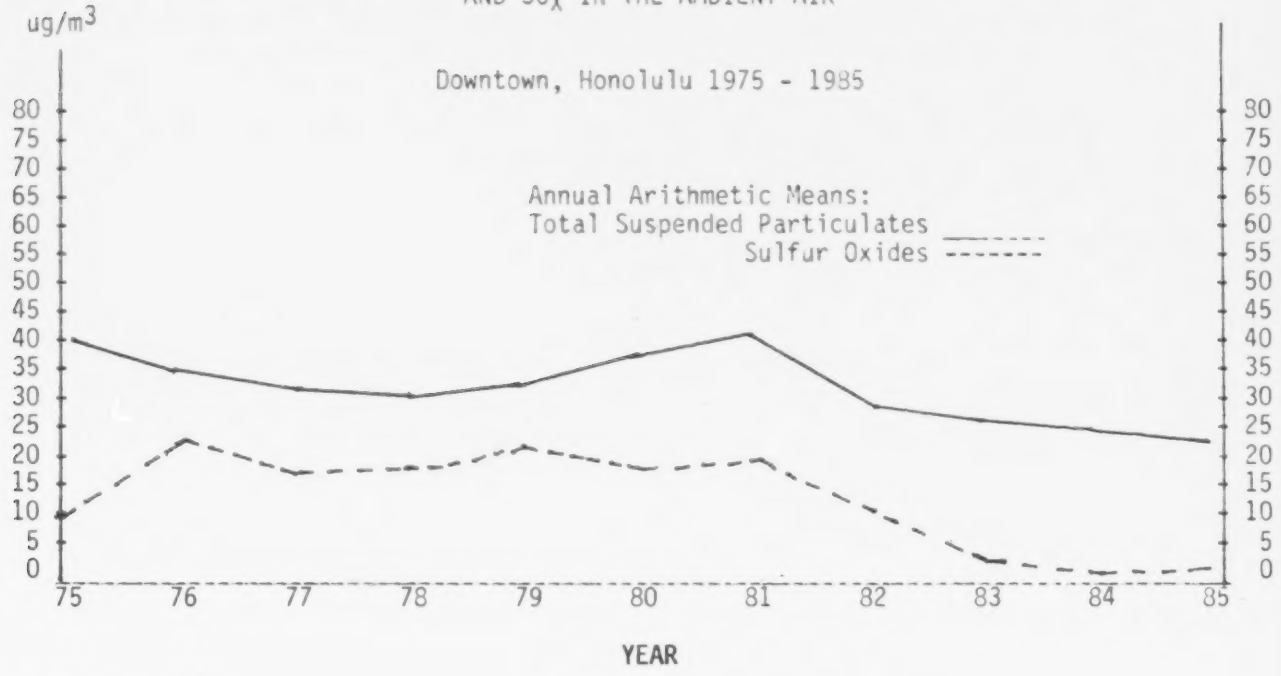
[c] Site discontinued on October 1, 1985. Data based on 9 months of sampling.

[d] New site established in June, 1985 at the Kona Hospital.

Source: Hawaii State Department of Health,
Pollution Investigation and Enforcement Branch, records

DEPARTMENT OF HEALTH ANNUAL REPORT

FIGURE 1
TRENDS OF TOTAL SUSPENDED PARTICULATES
AND SO_X IN THE AMBIENT AIR



Date	TSP ug/m3	SO_X ug/m3
1975	40	9
1976	34	23
1977	31	17
1978	29	18
1979	32	22
1980	37	18
1981	40	19
1982	29	11
1983	26	2.7
1984	25	2.3
1985	24	2.5

Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii.

Primary and secondary National Ambient air quality standards have been promulgated bv the federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including the values, and soiling and deterioration of materials. The standards for total suspended particulates (TSP) and sulfur oxides (SO_X) for the annual mean values are as follows:

	TSP(ug/m3)	SO_X(ug/m3)
Primary standard	75	80
Secondary standard	60	

TABLE 2
WATER QUALITY ON PUBLIC BEACHES: 1985

Beaches	Number of Samples	*Fecal Coliform Density Geometric Means (MPN/100 ml)
Oahu:		
Ala Moana Park (Ewa)	25	6.7
Ala Moana Park (Center)	12	3.3
Ala Moana Park (Diamond Head)	12	7.9
Elks Club Beach	12	6.2
Ewa Beach	11	5.1
Ft. DeRussy Beach	12	5.0
Gray's Beach	23	7.3
Hanauma Bay	12	17.7
Kahana Park Beach	12	54.1
Kahanamoku Beach	12	3.7
Kahanamoku Lagoon (Diamond Head)	23	77.0
Kailua Bay Outfall Shoreline	12	2.8
Kailua Beach Park	11	5.0
Kokokahi Pier	11	114.5
Kuhio Beach	12	22.5
Public Bath Beach	23	4.8
Tavern Beach	12	9.1
Sand Island Pt. #3	13	4.2
Kauai:		
Brennecke Beach	3	2.0
Hanalei Bay Landing	3	51.2
Poipu Beach	3	2.0
Hawaii: (Hilo)		
Exit of Ice Pond	17	78.2
Leileiwi Beach Park	9	182.1
Onekahakaha	9	8.8
Puhi Bay #3	9	286.1
Hawaii: (Kona)		
Hapuna Beach	11	3.9
Kahaluu Beach	11	2.8
Kealakekua Bay (off curio stand)	11	4.6
Kealakekua Bay (off canoe landing)	11	3.9
Magic Sands Beach	11	4.7
Puako Beach Lots (middle)	11	11.6
Puako Beach Lots (far end)	11	20.6
Spencer Beach Park	11	6.7
Maui:		
Hukilau Hotel Shoreline	11	7.4

*The geometric mean standard for fecal coliform density is 200 per 100 ml.

Source: Hawaii State Department of Health,
Pollution Investigation and Enforcement Branch, records

CONSTRUCTION GRANTS PROGRAM

The major function of the Wastewater Treatment Works Construction Grants Branch is to administer the Construction Grants Program for public wastewater treatment works pursuant to P.L. 92-500. Under the said program, 75 percent of the cost of constructing public treatment facilities are financed with federal funds, 10 percent by state funds and 15 percent by county funds. A total of $16,619,540 of federal funds were awarded to wastewater treatment works projects in Hawaii during 1985. The major objectives of the construction of public wastewater treatment works are to abate the pollution of the State's waters and to eliminate public health hazards caused by inadequate sewage disposal systems.

The administering of the program includes review of grant applications, facilities plans, environmental impact statements, infiltration-inflow analysis, construction plans and specifications, payment requests, construction activities contracts and other technical documents. A project is broken down into three (3) steps which include Step 1 (development of a facilities plan), Step 2 (development of construction plans and specifictions) and Step 3 (construction).

The following statistics indicate federal grants awarded to various projects (Table 1) and projects which have been completed during the year 1983 (Table 2):

TABLE 1

GRANTS AWARDED FOR:	PROJECT STEP	FEDERAL GRANT AMOUNT
Sewer Tunnel Relief, Inc. 1B	3	$ 5,993,474
Nanakuli Sewage Pump Station and Force Main	3	1,849,705
Kahaluu Sewage Pump Station and Force Main	3	1,933,174
Kuakini Highway, Interceptor Sewer, Part B	3	1,668,525
205(j) Water Quality Management		189,480
205(g) Construction Management Asst.		757,920
Grant Increases Awarded:		
Napili-Honokowai Sewerage System	3	175,782
Waimea Valley Collector Sewer	3	936,319
Poipu-Koloa Sewerage System	1	49,500
Ice Pond Sewers	3	9,559
Kapehu Camp Sewerage System	3	93,806
Sand Island Sewage Treatment Plant, Unit I, Phase 2	3	1,745,251
Ahuimanu Sewage Pump Station	3	37,961
Waianae Sewage Pump Station Modification	3	1,025,613
Honouliuli, Increment 3	3	153,471
Total		$16,619,540

TABLE 2

COMPLETED PROJECTS	PROJECT STEP	FEDERAL GRANT AMOUNT
Kaunakakai Facility Expansion	3	$ 2,283,932
Waimea Heights Collector Sewers	3	772,164
Ahuimanu Force Main, Section 2	3	2,091,904
Kailua Collector Sewer, Section 9	3	885,312
Makapuu Interceptor Sewer, Section 2	3	486,172
Ala Moana Sewage Pump Station	3	9,270,964
Total		$15,790,448

ENVIRONMENTAL PERMITS BRANCH

The Environmental Permits Branch administers permit and registration systems for air, water and solid waste programs by reviewing and evaluating applications and engineering reports and plans.

WASTEWATER PERMITS SECTION

Under federal and state laws, no person can discharge pollutants into a waterway from a point source unless a permit is obtained from the Department, which regulates what may be discharged and how much. Point sources include private and public wastewater treatment facilities, manufacturing plants, agriculture, wholesale, retail and other commercial establishments. Those obtaining permits comply with firm, legally enforceable requirements to meet applicable state laws. At present, the Department administers 90 National Pollutant Discharge Elimination System permits and 35 Zones of Mixing.

The Department currently administers a General Pretreatment Program for the U.S. Environmental Protection Agency (EPA). This program controls wastewater discharges into municipal sewer systems. This program was approved for the City and County of Honolulu during 1982.

Another program administered by the Department is the Underground Injection Control (UIC) Program that regulates discharges of pollutants to subsurface disposal systems. There are an estimated 500 injection wells in the State which transmit wastewater of some kind into groundwaters. The UIC Program will determine and control any threat these wastewaters will have on our present and future drinking water resources.

Table 1

Permits Issued or Renewed (1985 Calendar Year)

NPDES	20
Zones of Mixing	3
Underground Injection Control	50

AIR POLLUTION CONTROL AND SOLID WASTE MANAGEMENT PERMITS SECTION

Air and solid waste permits are also administered by the Environmental Permits Branch. Air permits are issued to stationary sources of air pollution. Its primary objective is to safeguard the ambient air quality of the State. Under an agreement between EPA and the Department of Health, the Branch administers the source review provisions of the Prevention of Significant Deterioration (PSD) rules and implements certain categories of the Standards of Performance for New Stationary Sources and the National Emission Standards for Hazardous Air Pollutants.

In 1985, the Air Advisory Committee was reconvened to continue the adequacy review of Chapter 11-59, Ambient Air Quality Standards, and Chapter 11-60, Air Pollution Control. The Committee reviewed the proposed geothermal rules and the ambient air standard for hydrogen sulfide. In addition, the Committee began discussing and reviewing air rules for coal burning facilities. The proposed PSD provisions were not incorporated in 1985 due to several technicalities.

Solid waste permits are issued to sanitary landfills and processing facilities such as reclamation plants, transfer stations, convenience centers and incinerators so as to assure that state's standards are met by these facilities.

Table 2

Air Pollution Control (1985 Calendar Year)

Authority to Construct Permits	38
Permits to Operate	85

Solid Waste Management (1985 Calendar Year)

Permits Issued	31

SUMMARY - CALENDAR 1985

The principal activity of the Sanitation Branch is to maintain a sanitary and healthful environment for the people in Hawaii by providing inspectional, educational and enforcement activities. Sanitarians investigate and abate health nuisances and minimize insanitary conditions which may be a threat to health. Inspections are made of food and food service establishments; milk plants, frozen dessert manufacturing plants; dairy farms; dwelling units, hotels and other multi-dwelling units; public swimming pools; barber shops; mortuaries and cemeteries; laundries; private sewage disposal systems and various other premises for certificates of approval, clearances for licensure or for permit issuance; or for compliance with public health standards and requirements.

The total number of inspections showed a decrease from 58,606 in 1984 to 56,817 in 1985. This decrease in the number of inspections made was due to retirement and the difficulty in recruiting for filling these positions.

The total number of insanitary conditions abated increased from 14,491 in 1984 to 14,721 in 1985. This increase in abatement of sanitary conditions reflects the desire towards accomplishing our objectives and goals.

The Drinking Water Program conducts activities as required by the Safe Drinking Water Act for public water systems as defined by statute. Table 6 provides a brief summary of the public water systems in the State of Hawaii identified by the island which they serve and their owner classification. Program activities include the review of monitoring results required of the water supplier, the lending of technical assistance to water suppliers who have encountered operational or maintenance problems, the review of new sources to assure their ability to provide good quality drinking water, and the enforcement of drinking water regulations.

The Drinking Water Program of the Department was also called upon to respond to findings of the contaminants trichloroethylene and tetrachloroethylene during 1985. At the time of the detections in April 1985, both of these chemicals were being proposed for regulation under the Safe Drinking Water Act which is administered in the State by the Drinking Water Program. The Program response was first, a statewide surveillance for the two chemicals and second, to work with water suppliers to assure that exposures to excessive levels of these chemicals be minimized. The construction of a water treatment plant for the Schofield Water System is a result of this effort.

The Food Products Section in the Sanitation Branch of the Environmental Protection and Health Services Division protects the health of the consumer by ensuring that foods are wholesome; over-the-counter drugs and therapeutic devices are safe and effective; cosmetics are harmless; and that all these products are properly labeled, packaged, and advertised. The section is also empowered to require that certain hazardous household products carry adequate label warnings for the safety of children and to be packaged with safety closures.

The Food Products Section administers the Hawaii Food, Drug and Cosmetics Act; the Hawaii Poison Prevention Packaging Act; and the regulations on food and food products, shellfish, milk, frozen desserts, and poisons. The primary responsibilities of the section involve the inspecting of food and drug establishments, investigating consumer complaints and collecting various specimens for examination to determine conformity with purity, labeling, and identity standards.

Table 7 shows the various samples examined by the Food Products Section. No water samples were collected from local shellfish growing areas because, unlike 1984, there was no viable shellfish growing operation locally.

Table 8 relates the number of milk products collected and tested for compliance with the milk standards.

Table 9 relates the number of frozen desserts collected for compliance with the frozen dessert standards.

Table 10 shows the amount of commodities destroyed.

Table 11 shows other selected activities of the Food Products Section. The low number of poison permits issued was due to the fact that the section automatically renewed the 1984 poison permits. The number of poison permits issued in 1985 were to new permittees. On the other hand, more frozen dessert permits were issued as more businesses sold frozen desserts.

TABLE 1

AVERAGE DAILY PRODUCTION OF PASTEURIZED MILK BY ISLAND
STATE OF HAWAII, 1985

ISLAND	AVERAGE DAILY PRODUCTION (Pounds)
OAHU	319,993
HAWAII	46,180
MAUI*	--
KAUAI	46,635

*Includes the islands of Maui, Molokai, and Lanai

No retail raw milk is sold for human consumption in the State.

2.5 pounds = 1 quart

TABLE 2

DAIRIES AND MILK PLANTS AS OF DECEMBER 31, 1985
BY TYPE AND ISLAND

TYPE	TOTAL	ISLAND			
		OAHU	HAWAII	MAUI*	KAUAI
Pasteurization Plants	5	2	1	1	1
Milk Plant Producers	22	16	4	1	1

*Includes the islands of Maui, Molokai, and Lanai

TABLE 3

DISTRIBUTION OF SANITARY INSPECTIONS BY TYPE AND ISLAND
STATE OF HAWAII, 1985

TYPE OF INSPECTION	TOTAL	ISLAND			
		OAHU	HAWAII	MAUI*	KAUAI
TOTAL INSPECTIONS	56817	31051	8981	9318	7467
Dwellings	3086	1154	160	406	1366
Apartments	442	377	24	39	2
Hotels	449	234	51	102	62
Lodging Houses	27	19	3	3	2
Tenements	23	21	--	2	--
Boarding Houses	60	44	--	16	--
Adult Family Boarding Homes	342	297	32	--	13
Care Homes	493	358	62	21	52
Day Care Centers	610	422	94	55	39
Kindergartens, Schools	561	316	57	134	54
Institutions, Hospitals	590	215	8	356	11
Funeral Establishments, Cemeteries	100	79	5	14	2
Liquor Dispensers	3428	2055	460	639	274
Grocery Stores	4020	2682	508	535	295
Markets	1957	1515	163	204	75
Bottling Plants, Canneries	225	174	4	34	13
Food Manufacturers	4389	2771	588	781	249
Restaurants, Cafeterias, Drive-Ins, Lunch Counters, etc.	12639	8338	1722	1800	779
Food Sales	2663	1366	542	554	201

TABLE 3 (Continued)

ACTIVITY	TOTAL	OAHU	HAWAII	MAUI*	KAUAI
Lunch Wagons	1097	935	57	64	41
Food Peddlers	237	226	5	2	4
Dairy Farmers, Milk Plants	1059	646	198	129	86
Frozen Dessert Plants	56	45	4	2	5
Dispensing Freezers, Shave Ice Outlets	724	118	155	268	183
Vending Machine Operations	29	17	1	11	--
Warehouses	774	561	92	72	49
Hog Ranches, Poultry Farms, Feed Lots	130	67	1	6	56
Slaughterhouses	42	9	2	22	9
Vegetable Gardens	77	4	30	1	42
Flower Gardens	10	8	--	--	2
Barber Shops, Beauty Parlors	466	392	35	18	21
Massage Parlors, Reducing Salons	106	58	21	10	17
Tattoo Shops	37	36	--	1	--
Clothes Cleaners, Laundries	83	54	3	5	21
Secondhand Dealers	--	--	--	--	--
Mattress Makers	2	1	1	--	--
Amusement Places, Parks, Playgrounds	333	47	55	215	16
Recreational Trailer Camps	7	--	4	--	3
Industrial Plants, Small Shops, General Merchandise	996	134	283	419	160
Swimming Pools	678	387	141	14	136
Household Sewage Disposal Systems, House Drain, Sewer	2884	1518	634	327	405
Subdivisions	500	14	45	120	321
Unclassified	10386	3337	2731	1917	2401

*Includes the islands of Maui, Molokai and Lanai

TABLE 4

SUMMARY OF ACTIVITIES BY SANITARIAN

STATE OF HAWAII, 1985

ACTIVITY	TOTAL	ISLAND			
		OAHU	HAWAII	MAUI*	KAUAI
A. Inspection, Investigation, Enforcement					
1. Insanitary Practices & Hazardous Conditions Abated					
Structures Repaired	247	236	--	--	11
Plumbing, Fixtures Repaired	32	22	2	3	5
Water Supply Violations Corrected	25	11	1	7	6
Sewage Disposal Violations Corrected	193	68	77	25	23
Ventilation Corrected	34	24	1	4	5
Floor, Walls, Ceiling Cleaned	34	31	--	--	3
Streets, Alleyways, Yards Cleaned of Rubbish, etc.	73	61	6	5	1
Garbage Containers, Conveyances Corrected	42	39	1	1	1
Domestic Animals, Poultry Nuisances Abated	142	114	4	7	17
Vermin, Rodent, Birds, Animal Nuisances Abated	53	42	1	3	7
Food Equipment Replaced, Repaired	36	36	--	--	--
Food Equipment, Utensils Cleaned	11	11	--	--	--
Food Equipment, Utensils Sanitized	1	1	--	--	--
Food Equipment, Utensils Properly Stored, Handled	19	19	--	--	--
Food Storage, Display, Handling Corrected	16	16	--	--	--
Insanitary Personnel Practices Abated	12	11	--	--	1
Food Handlers' Certificate Obtained	3	3	--	--	--

TABLE 4 (Continued)

ACTIVITY	TOTAL	OAHU	HAWAII	MAUI*	KAUAI
Toilet Room and Facilities Cleaned, Repaired	42	38	1	1	2
Barber, Beauty Shop Instruments Cleaned, Sanitized	5	3	--	2	--
Swimming Pool Disinfected; pH Maintained	45	35	4	--	6
Depth Marking Violations Corrected	10	3	1	2	4
Swimming Pool Safety Violations Corrected	49	27	6	--	16
Bacteriological Standards Met	10	1	1	--	8
Abnormal Milk Excluded	--	--	--	--	--
Milking Procedures Corrected	--	--	--	--	--
Thermometric Controls in Compliance	1	--	--	--	1
Pressure Differential of Pasteurizer Met	--	--	--	--	--
Hoiding Time of Pasteurizer Met	--	--	--	--	--
Required Data on Recorder-Controller Charts Furnished	6	6	--	--	--
Miscellaneous Nuisances Abated	280	225	13	18	24
Total Corrections Made	1322	984	119	78	141
2. Field Test for Cl, pH, Alk., Sed., Abnormal Milk	4056	514	1825	1041	676
3. Samples Collected: Milk, Food, Water, Swabs, etc.	5266	459	2372	1284	1151
4. Complaints Investigated	2089	1442	172	271	204
Warning Given	646	538	73	1	34
Verbal Orders Given	1291	831	174	100	186
Verbal Orders Finished	1014	658	119	78	159
Total Verbal Orders Unfinished	10202	8129	1743	231	99

TABLE 4 (Continued)

ACTIVITY	TOTAL	OAHU	HAWAII	MAUI*	KAUAI
Written Orders Given	55	38	--	3	14
Written Orders Finished	42	31	--	1	10
Total Written Orders Unfinished	218	142	54	9	13
5. Certificates Issued	648	391	57	162	38
6. Permits Issued	218	9	51	13	145
7. Permits Degraded	--	--	--	--	--
8. Permits Suspended, Revoked	2	--	--	--	2
9. Prosecutions	1	1	--	--	--
B. Education					
1. Food, Milk Handlers' Class	10	1	3	4	2
2. Workshops, Meetings	217	75	63	25	54
3. In-Service Training	80	56	14	6	4
Technical Review and Consultation Provided	6365	1743	554	549	3519

*Includes the islands of Maui, Molokai and Lanai

TABLE 5

DAILY SUMMARY OF FOOD SERVICE AND FOOD ESTABLISHMENTS

STATE OF HAWAII, 1985

ACTIVITY	TOTAL	ISLAND			
		OAHU	HAWAII	MAUI*	KAUAI
INSPECTION, INVESTIGATION, ENFORCEMENT					
A. Insanitary Practices and Hazardous Conditions Abated					
1. Food Source, Wholesome	246	126	24	74	22
2. Food--Original Container, Properly Labeled	348	213	31	74	30
3. Potentially Hazardous Food Meets Temperature Requirements	359	205	58	82	14
4. Facilities to Maintain Product Temperature	164	25	9	48	82
5. Thermometers Provided and Conspicuous	378	242	59	37	40
6. Potentially Hazardous Food Properly Thawed	180	117	30	20	13
7. Unwrapped and Potentially Hazardous Food Not Re-served	10	8	1	1	--
8. Food Protection---Storage, Preparation, Display, Service, Transportation	1355	864	141	213	137
9. Handling of Food (Ice) Minimized	149	98	15	36	--
10. Food (Ice) Dispensing Utensils Properly Stored	336	196	46	56	38
11. Personnel Infections, Communicable Disease Restricted; T.B. Clearance Card	80	66	4	3	7
12. Hands Washed and Clean, Good Hygienic Practice	406	289	41	31	45
13. Clean Clothes, Hair Restraints	334	244	42	28	20
14. Food Contact Surfaces: Designed, Constructed, Maintained, Installed	622	435	59	104	24
15. Non-Food Contact Surfaces: Designed, Constructed, Maintained, Installed	562	386	60	95	21
16. Dishwashing Facilities: Designed, Constructed, Maintained, Installed	212	139	34	12	27
17. Accurate Thermometers	29	6	9	9	5
18. Single Service Articles, Storage, Dispensing	220	109	33	67	11

TABLE 5 (Continued)

ACTIVITY	TOTAL	OAHU	HAWAII	MAUI*	KAUAI
19. No Re-Use of Single-Service Articles	62	9	41	3	9
20. Pre-flushed, Scraped, Soaked	1	1	--	--	--
21. Wash, Rinse Water: Clean, Proper Temperature	44	8	33	1	2
22. Sanitization Rinse: Clean, Temperature, Concentration	306	158	40	58	50
23. Wiping Cloths: Clean, Use Restricted	186	128	28	23	7
24. Food-Contact Surfaces of Equipment and Utensils Clean	1077	815	88	135	39
25. Non-Food Contact Surfaces of Equipment & Utensils Clean	1181	882	134	136	29
26. Storage, Handling of Clean Equipment-Utensils	317	158	42	92	25
27. Water Source, Safe: Hot & Cold Under Pressure	158	111	10	14	23
28. Sewage and Waste Water Disposal	68	49	8	6	5
29. Plumbing--Installed, Maintained	269	214	19	24	12
30. Plumbing--Cross-Connection, Back Siphonage, Backflow	86	55	8	11	12
31. Toilet & Handwashing Facilities--Number, Convenient, Accessible, Installed	265	155	20	32	58
32. Toilet Rooms, Self-Closing Doors, Good Repair, Clean Hand Cleanser, Sanitary Hand-Drying, Proper Waste Receptacles	711	507	70	71	63
33. Garbage & Refuse Disposal Receptacles Covered: Adequate No., Insect/Rodent Proof, Clean	141	78	22	26	15
34. Outside Storage Area, Enclosures Properly Constructed, Clean: Incineration Controlled	54	35	7	10	2
35. Presence of Insects, Rodents--Outer Openings Protected, Turtles, Other Animals, Proper Insecticides	757	564	73	92	28
36. Floors: Constructed, Drained, Clean, Good Repair, Covering Installation, Dustless Cleaning Method	763	543	70	119	31
37. Walls, Ceiling, Attached Equipment: Constructed, Good Repair, Clean, Surfaces, Dustless Cleaning Methods	794	590	62	93	49
38. Lighting Provided as Required	134	69	25	30	10
39. Rooms and Equipment--Vented as Required	94	65	9	14	6
40. Dressing Rooms--Rooms Clean, Lockers Provided, Facilities Clean	150	97	14	34	5
41. Toxic Items Properly Stored, Labeled, Used	851	565	76	116	94

TABLE 5 (Continued)

ACTIVITY	TOTAL	OAHU	HAWAII	MAUI*	KAUAI
42. Premises: Maintained, Free of Litter, Unnecessary Articles, Cleaning/Maintenance Equipment Properly Stored, Authorized Personnel	494	302	41	105	46
43. Complete Separation from Living/Sleeping Quarters, Laundry	13	5	4	2	2
44. Clean, Soiled Linen Properly Stored	45	22	11	12	--
Total Corrections Made	14721	9753	1558	2252	1158
B. Field Test for Cl, pH, Alk, etc.	2692	1246	572	869	5
C. Samples Collected: Food, Water Swabs, etc.	604	391	158	48	7
D. Complaints Investigated	1026	862	69	44	51
E. Orders and Warnings					
Warnings Given	4266	2687	800	622	157
Verbal Orders Given	15823	7917	2453	4287	1166
Verbal Orders Finished	11587	6651	1544	2252	1140
Total Verbal Orders Unfinished	81720	75501	1648	4018	553
Written Orders Given	46	42	--	1	3
Written Orders Finished	38	37	--	--	1
Total Written Orders Unfinished	258	248	5	1	4
F. Certificates Issued	5486	4715	77	693	1
G. Permits Issued	1623	839	445	180	159
H. Permits Suspended, Revoked	17	14	2	1	--
I. Prosecutions	--	--	--	--	--
EDUCATION					
A. Food Handlers' Class	50	17	30	--	3
B. Workshops, Meetings	130	39	79	8	4
C. In-Service Training	161	82	47	32	--
TECHNICAL REVIEW AND CONSULTATION PROVIDED	5749	2898	1170	570	1111

*Includes the islands of Maui, Molokai and Lanai

TABLE 6

PUBLIC WATER SYSTEMS*
STATE OF HAWAII, 1985

SYSTEMS	Total	Island			
		Hawaii	Maui	Oahu	Kauai
Municipal Systems	54	21	11	8	14
Private Systems	66	17	17	22	10
State Systems	13	1	4	4	4
Federal Systems	25	3	2	18	2
Total	158	42	34	52	30
Sanitary Surveys**	20	6	4	6	4

* A Public Water System is defined as a system that has at least fifteen service connections or regularly serves an average of at least twenty-five individuals daily at least sixty days out of the year.

** A Sanitary Survey is an on-site inspection of a public water system by Department personnel using standard procedures to determine the effectiveness of the operation and maintenance of the system in providing safe water to the consuming public.

TABLE 7

SUMMARY OF SAMPLES EXAMINED BY THE FOOD PRODUCTS SECTION ON OAHU
STATE OF HAWAII, 1985

Type of Samples Collected	Number Collected	Violative Samples
Foods for Pesticide Analyses a/	371	10
Samples for Evidence Documentation b/	99	10
Product Standard Samples c/	25	3
Water Samples from Shellfish Growing Areas	0	0
Seafood (Imported Shellfish)	25	3

a/ Pesticide analyses of foods other than milk and milk products.

b/ Samples to document a violation or suspected violation which may have been found during an inspection or investigation.

c/ Samples to determine compliance with labeling and product standard requirements.

TABLE 8

SAMPLES AND ANALYSES OF MILK AND MILK PRODUCTS
STATE OF HAWAII, 1985

Product	No. of Samples for Product Standards a/	Violative Samples b/	No. of Samples for Pesticide Analyses	Violative Samples
Raw Milk	321	43	283 d/	0
Homogenized Milk	288	20	--	--
Others c/	761	16	--	--

a/ Analyses to determine compliance with various milk standards including microbiological, inhibitory substance, somatic cell, phosphatase, milkfat, solids-not-fat, and temperature standards.

b/ The number of violative samples include retested samples.

c/ Other milk products include recombined milk, imitation milk, skim milk, yogurt, sour cream, plastic milk containers, etc.

d/ Includes raw and processed milk products.

TABLE 9

SAMPLES AND ANALYSES OF FROZEN DESSERTS
STATE OF HAWAII, 1985

Type of Frozen Dessert	Number of Samples	Violative Samples
Ice Milk	828	241
Ice Cream	38	2
Sherbert	13	1
Frozen Yogurt	126	30
Others	95	36
Total	1,100	310

Samples tested for compliance with various frozen dessert standards including milkfat, solids-not-fat and microbial standards.

TABLE 10

FOOD AND OVER-THE-COUNTER DRUGS CONDEMNED AND DESTROYED BY COUNTY
STATE OF HAWAII, 1985

County	Foods (Weight in Pounds)	Retail Value	Over-The-Counter Drugs & Medical Devices (Weight in Pounds)	Retail Value
Honolulu	190,076	$ 119,703	--	--
Hawaii	21,654	17,962	--	--
Maui	13,537	100,266	--	--
Kauai	29,074	5,184	--	--
Total	254,341	$ 243,115	--	--

TABLE 11

SELECTED ACTIVITIES OF THE FOOD PRODUCTS SECTION
STATE OF HAWAII, 1985

Activities	Number
Agency Assistance	30
Complaint Investigations	272
Label Reviews	605
Frozen Dessert Permits Issued	272
Poison Permits Issued	50
Permits Issued for Prophylactic Devices	1
Number of Consultations	1,862

SUMMARY

The objective of the Vector Control Branch is to prevent outbreaks of vector-borne diseases and serious vector nuisances. This is accomplished through program activities that are designed to control existing vector populations and prevent encroachment of new vector species from abroad.

Table 1 presents the principal activities of the Branch. There was a significant increase in the number of cordon inspections at both the airports and seaports in the State in 1985 compared to the previous year. This was largely due to increased emphasis on cordon sanitation as well as a change in the reporting system from the neighbor islands.

Table 2 presents the small mammal retrieval data by island and area. All totals were generally higher than the previous year, especially the trap days and number of mammals retrieved.

Table 3 presents a summary of the zoonosis laboratory activities and findings. Serology testing was generally much higher overall in 1985 than the previous year. The number of macroscopic examinations, the number of ectoparasites recovered, and the number of sera processed and tested for plague, murine typhus, and leptospirosis all increased over the previous year.

Table 4 presents a summary of the applied vector research projects. These projects are conducted to provide the program with a better basis for controlling vectors.

TABLE 1

PRINCIPAL ACTIVITIES OF THE VECTOR CONTROL BRANCH ON THE

ISLANDS OF OAHU, HAWAII, MAUI AND KAUAI

STATE OF HAWAII, 1985

Activity	Total	Island			
		Oahu	Hawaii	Maui	Kauai
Vector Surveillance					
Mosquitoes (Lt-Trap Days)	38,941	20,058	10,206	2,472	6,205
Small Mammals (Trap-Days)	324,491	80,977	185,745	56,915	854
Flies (Trap-Days)	661	661	...	...	...
Yellowjackets (Trap-Days)	14,173	...	13,078	...	1,095
Others (Trap-Days)	...	...	...	...	...
Domestic Vector Abatement					
No. Premises Inspected for Survey	16,136	2,453	11,893	1,790	...
No. Additional Premises Inspected During Complaints	3,473	2,354	773	330	16
Enforcement					
Demolition Permits Investigated	446	392	8	46	-
Referrals Investigated	84	19	23	-	42
Complaints Investigated	3,191	1,871	967	293	60
Mosquitoes	497	385	51	50	11
Rodents	1,547	847	519	156	25
Flies	321	251	45	12	13
Fleas	144	85	36	19	4
Mites/Ticks	56	49	3	4	-
Cockroaches	57	28	14	10	5
Wasps/Bees	191	12	159	20	-
Others	378	214	140	22	2
Area Vector Abatement					
Storm Drains, Pits Trtd. (No.)	8,546	2,111	118	6,317	-
Mosq. Brdg. Areas Insp. (Ac.)*	23,400.3	8,808.1	1,651.0	5,207.6	7,733.6
Mosq. Brdg. Areas Trtd. (Ac.)	2,334.7	318.5	171.9	995.9	848.4
Mosq. Adulticiding (Ac.)	127.9	45.5	1.9	80.5	-
Mosq. Brdg. Containers Trtd. (No.)	32,675	3,410	28,482	783	-
Mosq. Bio-Control (No. Fish Stocked)	399,875	268,000	2,525	109,350	20,000
Rodent Area Treated (Ac.)	3,223.5	90.0	300.0	2,833.5	-
Fly Control (Ac.)	1,219.0	67.1	1.9	1,150.0	-
Yellowjacket Nests Destroyed (No.)	131	-	119	10	2
Cordon Sanitation					
Airport Inspection (Freq.)	1,179	75	516	588	...
Harbor/Pier Inspection (Freq.)	1,321	250	669	402	...
Rodent Bait Stations (No.)	3,970	1,858	1,584	528	...
Mosq. Brdg. Containers Trtd. (No.)	866	866	...	...	...
Education and Consultation					
People Reached (No.)	4,893	2,904	797	556	636
Vector Identification (No.)	1,159	502	157	500	-
Source Reduction (No.)	1,351	349	85	706	211
Applied Vector Research					
On-Going Projects	10	10	...	...	...

* Ac. = Acre

TABLE 2

TOTAL SMALL MAMMAL RETRIEVALS BY ISLAND, ACTIVITY, AND SPECIES

STATE OF HAWAII, 1985

Island	Activity	Trap-Days*	Total Small Mammals Retrieved	Species								
				Rattus					Mus musculus		Herpestes auropunctatus	
				Total								
				Number	Percent	exulans	norvegicus	rattus	Number	Percent	Number	Percent
Hawaii	Field	75,412	6,105	2,547	41.7	326	276	1,945	1,658	27.2	1,900	31.1
	Cordon	110,333	3,522	492	14.0	212	4	276	1,604	45.5	1,426	40.5
	Total	185,745	9,627	3,039	31.6	538	280	2,221	3,262	33.9	3,326	34.5
Oahu	Field	52,270	2,483	360	14.5	1	4	355	1,846	74.3	277	11.2
	Cordon	28,707	26	16	61.5	-	12	4	10	38.5	-	-
	Total	80,977	2,509	376	15.0	1	16	359	1,856	74.0	277	11.0
Maui	Field	25,031	1,683	1,489	88.5	463	-	1,026	185	11.0	9	0.5
	Cordon	31,884	85	37	43.5	18	-	19	48	56.5	...	...
	Total	56,915	1,768	1,526	86.3	481	-	1,045	233	13.2	9	0.5
Kauai	Field	854	151	65	43.0	27	15	23	86	57.0	...	...
	Cordon	...	...	...	...	...	...	...	...	...	...	...
	Total	854	151	65	43.0	27	15	23	86	57.0	...	...
Total	Field	153,567	10,422	4,461	42.8	817	295	3,349	3,775	36.2	2,186	21.0
	Cordon	170,924	3,633	545	15.0	230	16	299	1,662	45.7	1,426	39.3
	Total	324,491	14,055	5,006	35.6	1,047	311	3,648	5,437	38.7	3,612	25.7

* Trap-Days = No. Traps Set X No. of Days Trapped

TABLE 3

SUMMARY OF ZOONOSIS LABORATORY ACTIVITIES AND FINDINGS BY AREA

STATE OF HAWAII, 1985

Activity	Total	Island				
		Oahu	East Hawaii	West Hawaii	Maui	Kauai
No. Macroscopic Examinations	8,386	2,264	1,427	3,306	1,288	101
Ectoparasites Recovered						
No. Fleas	2,444	2,259	-	133	46	6
No. Mites	1,130	584	22	397	-	127
No. Lice	244	58	-	-	-	186
Serology						
No. Processed Sera for Branch Tests	4,677	376	1,464	1,317	1,360	160
Plague[a]						
No. Sera Processed	566	44	282	134	5	101
No. Sera Tested	550	43	282	133	5	87
No. Sera Positive (%)	-	-	-	-	-	-
Murine Typhus[b]						
No. Sera Processed	4,111	332	1,182	1,183	1,355	59
No. Sera Tested	3,402	331	938	770	1,305	58
No. Sera Positive (%)	521 (15.3)	15 (4.5)	10 (1.1)	24 (3.1)	471 (36.1)	1 (1.7)
Leptospirosis[c]						
No. Cultures Prepared	724	623	...	...	...	101
No. Cultures Positive (%)	86 (11.9)	80 (12.8)	...	...	...	6 (5.9)

a/ Only animals retrieved from Kauai and the ports of entry of the other islands.
b/ Only rat sera tested by IFA technique.
c/ Oahu and Kauai only.

TABLE 4

APPLIED VECTOR RESEARCH PROJECTS

STATE OF HAWAII, 1985

Pest Common Name (Scientific Name)	Project Title	Status/Purpose
Southern House Mosquito (*Culex quinquefasciatus*)	Incorporation of GB 1356 into Diesel Oil to Enhance its Dispersal in Water to Reduce Larviciding Costs	Completed. Cost-effective mix ratios of diesel oil:GB 1356 were 2:1 for hand-pump application and 95:5 for helicopter application. Mosquito larviciding costs were reduced by 35.7¢/acre with the 2:1 ratio and 86.3¢/acre with the 95:5 ratio at current prices.
Southern House Mosquito (*Culex quinquefasciatus*) Forest Day Mosquito (*Aedes albopictus*)	Laboratory and Field Tests of Arosurf MSF Mosquito Larvicide and Pupacide Against *Culex* and *Aedes* Species	Completed. Effectiveness of this new insecticide was unsatisfactory for both mosquito species and was not recommended for use.
Filth-Inhabiting Flies	An Evaluation of Sanitary Landfill Practices and their Effect on Fly Breeding	Completed. Refuse compaction and soil covers were ineffective in preventing fly larvae and eggs already in incoming refuse from developing and emerging as adults. The value of refuse compaction was in preventing access to ovipositing flies, while soil covers reduced odors that attracted immigrant flies.
Midges (Chironimidae)	The Control of Midges Breeding in Water Hazard Ponds at Hawaii Kai Golf Course	Completed. The insect growth regulator Altosid in slow-release briquets was the most effective insecticide tested. The use of guppies to eat midge eggs and Tilapia to eat the algae that midges fed upon gave effective biological control of this pest.

TABLE 4 (Continued)

Pest Common Name (Scientific Name)	Project Title	Status/Purpose
Mongoose (Herpestes auropunctatus)	Rabies Outbreak Contingency Plan	Completed. A contingency plan for mongoose control to contain any rabies outbreak is ready for immediate use. However, studies are ongoing to refine and improve mongoose eradication methods.
Mongoose (Herpestes auropunctatus)	Halawa Animal Quarantine Station Mongoose Eradication Project	Completed. Developed and conducted a perimeter mongoose trapping program to prevent or minimize chances of mongoose/rabid quarantined animal contact.
Mongoose (Herpestes auropunctatus)	Mongoose Population Surveys	Ongoing. Trapping studies to determine mongoose populations in different habitats for more efficient control during a rabies outbreak.
Rodents	Rodent Population Surveys in Residential Communities on Oahu	Ongoing. Development of a standardized survey method for rodents in residential areas to obtain baseline data for future comparisons of rodent population changes in each community.
Rodents and Mosquitoes	Evaluation and Improvement of Rodent and Mosquito Control at Seaports and Airports	Ongoing. Improve rodent and mosquito control methods at airports and seaports to prevent plague and exotic mosquitoes from entering Hawaii.
Long-Legged Ant (Anoplolepis longipes)	Distribution, Abundance, and Control of the Long-Legged Ant	Ongoing. Ecological studies of individual colonies in the field are continuing to determine why this ant is pestiferous only in certain areas.

SUMMARY

The Litter Control Office was established within the Department of Health pursuant to Act 2, First Special Session of the 1977 Legislature. The purpose of the office is to promote, coordinate and implement litter control in the State through public education and awareness, streamlined enforcement, continuing voluntary anti-litter campaigns, and requirements for litter receptacles.

"Litter" means all rubbish, refuse, waste material, garbage, trash, offal, or any debris of whatever kind or description, whether or not it is of value, and includes improperly discarded paper, metal, plastic, glass, or solid waste.

The results produced in the 1985 Community Work Day Program are listed in Table 1. Community Work Days were held on 8 days in 1985.

Table 2 shows the number of participating schools and individuals and the amount of aluminum cans and newspapers and other materials collected in the 1985 Statewide Recycling Campaign. The campaign was conducted during the month of February on the islands of Oahu, Maui, Kauai, Hawaii and Molokai. The Governor's Advisory Committee on Litter Control and The Recycling Group, which provided funding and coordination, co-sponsored this campaign.

Table 3 shows the number of litter control materials that were made available to community organizations, youth groups and the general public. Car litter bags and the various types of educational and promotional materials are available to the public, upon request, for litter control projects and promotional purposes.

TABLE 1

1985 COMMUNITY WORK DAY PROGRAM
STATE OF HAWAII

No. of Neighborhood Canvassers	750
Total Dollars Collected by Canvassers	$11,200
No. Bags of Litter Picked Up	23,101
No. of Participating Groups	811
No. of Participants	12,454

TABLE 2

STATE RECYCLING CAMPAIGN
STATE OF HAWAII, FEBRUARY 1985

No. of Participating Schools	Approximate No. of Participating Individuals	No. of Pounds of Aluminum Cans Collected	No. of Pounds of Other Materials Collected	Total Dollars Earned
85	105,000	181,800	266,800	$49,370

TABLE 3

LITTER CONTROL MATERIALS DISTRIBUTED
STATE OF HAWAII, 1985

Type of Material	Total Amounts Distributed
Car Litter Bags	95,000
Bumper Stickers and Decals	12,400
Printed Materials a/	56,200
Other Promotional Materials b/	12,600

a/ Flyers, posters, brochures, and notices.
b/ Magnets, bookcovers, calendars, pens, keytags, and weepuls.

MEDICAL HEALTH SERVICES DIVISION

DIABETES SCREENING SURVEY

Chronic Disease Branch

Statistical Report - 1985

Table 1 shows the total number of persons screened and the new diabetics found by age and sex. The percent of positive screenees was higher than last year's figure of 1.44 and more in line with national figures. The rate of new diabetics found was also higher (7.26 per thousand as compared with 5.67 in '83-'84). The greatest increase was in the 65+ age group.

Table 2 shows the rates of new diabetics by age and sex. The Hawaiian/Part Hawaiians showed the highest rate (12.00 per thousand), 50% higher than the Japanese (8.33 per thousand), who usually are near the top. The reason for this unusually high figure is not known, but may be due to an increasing awareness of health and health screening.

Table 3 shows the rates by island. Kauai led with a rate of 16.69. There does not appear to be a specific pattern for positives by island.

Table 4 shows figures of blood pressure screening. The percentage still shows approximately one-third abnormal screenees, in line with national figures.

TABLE 1

DEPARTMENT OF HEALTH
CHRONIC DISEASE BRANCH

03/24/86

DIABETES SCREENING SURVEY BY AGE AND SEX FOR JULY, 1984 - JUNE, 1985

	TOTAL SCREENED			POSITIVE SCREENEES						NEW DIABETICS					
				NUMBER			PERCENT			NUMBER			RATE*		
	TOTAL	MALE	FEMALE	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F
ALL AGES	6,749	2,763	3,986	156	62	94	2.31	2.24	2.35	49	17	32	7.26	6.15	8.02
UNDER 25	487	192	295	3	1	2	0.61	0.52	0.67	0	0	0	0.00	0.00	0.00
25-44	1,938	702	1,236	27	8	19	1.39	1.13	1.53	7	2	5	3.61	2.84	4.04
45-54	922	336	586	21	7	14	2.27	2.08	2.38	9	5	4	9.76	14.88	6.82
55-64	1,456	595	861	43	20	23	2.95	3.36	2.67	12	4	8	8.24	6.72	9.29
65-OVER	1,946	938	1,008	62	26	36	3.18	2.77	3.57	21	6	15	10.79	6.39	14.88

*Number of new diabetics per thousand screenees.

TABLE 2

DEPARTMENT OF HEALTH
CHRONIC DISEASE BRANCH

03/24/86

DIABETES SCREENING SURVEY BY RACE AND SEX FOR JULY, 1984 - JUNE, 1985

	TOTAL SCREENED			POSITIVE SCREENEES						NEW DIABETICS					
				NUMBER			PERCENT			NUMBER			RATE*		
	TOTAL	MALE	FEMALE	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F	TOTAL	M	F
ALL RACES	6,749	2,763	3,986	156	62	94	2.31	2.24	2.35	49	17	32	7.26	6.15	8.02
JAPANESE	2,758	1,062	1,696	78	26	52	2.82	2.44	3.06	23	7	16	8.33	6.59	9.43
CAUCASIAN	1,664	718	946	29	14	15	1.74	1.94	1.59	9	4	5	5.40	5.57	5.28
HAWAIIAN,PART-HA	583	201	382	12	3	9	2.05	1.49	2.35	7	2	5	12.00	9.95	13.08
CHINESE	451	232	219	3	1	2	0.66	0.43	0.91	3	2	1	6.65	8.62	4.56
FILIPINO	663	312	351	25	14	11	3.77	4.48	3.13	4	2	2	6.03	6.41	5.69
KOREAN	65	25	40	1	0	1	1.53	0.00	2.50	0	0	0	0.00	0.00	0.00
PUERTO RICAN	47	18	29	3	2	1	6.38	11.11	3.44	0	0	0	0.00	0.00	0.00
OTHER & UNSPEC.	518	195	323	5	2	3	0.96	1.02	0.92	3	0	3	5.79	0.00	9.28

*Number of new diabetics per thousand screenees.

TABLE 3

DEPARTMENT OF HEALTH
CHRONIC DISEASE BRANCH

DIABETES SCREENING SURVEY BY ISLAND FOR JULY 1, 1984 - JUNE 30, 1985

LOCATION	TOTAL SCREENED	NO. POSITIVE DEXTROSTIX	NEW DIABETICS	RATE PER 1000 SCREENED
OAHU	3,257	66	14	4.30
HAWAII	1,750	69	16	9.14
MAUI	979	18	8	8.17
KAUAI	539	21	9	16.70
MOLOKAI	121	2	1	8.26
LANAI	103	8	1	9.71
TOTAL	6,749	184	49	7.26

TABLE 4

BLOOD PRESSURE SCREENING

Fiscal Year 1984-85

	Number	Percent
TOTAL SCREENED	4,307	100.0
Total *Abnormal Referrals	1,424	33.06
New Referrals	850	19.74
Known Hypertensive Referrals	574	13.33
Total Normal Screenees	2,883	66.94

*Abnormal criteria is 140/90 or above.

EMERGENCY MEDICAL SERVICES SYSTEM BRANCH

Summary 1985

The Emergency Medical Services System Branch (EMSS) is responsible for the administration and coordination of the state comprehensive emergency medical services system through a cohesive network of components that are designed to reduce morbidity and mortality by assuring the availability and accessibility of the best possible prehospital emergency medical services statewide.

Emergency ambulance services are provided on each of the six major islands within identified geographic areas that allow a response time standard of 95% of all calls responded to within an average of twenty minutes. EMS training programs for Emergency Medical Technicians, Mobile Intensive Care Technicians, and public safety personnel (county and state fire, police, and lifeguards) are provided through the Community Colleges on Oahu, Maui, Kauai, and Hawaii. The statewide MEDICOM medical communication system utilizes complex communication equipment that provides voice communication between ambulance personnel and hospitals. This communication system is essential so that physicians may provide medical direction in the delivery of prehospital emergency medical care.

Table 1 shows the number of emergency ambulance units located on each island and the level of service provided.

Table 2 shows the number of calls responded to by emergency ambulance units on each island.

TABLE 1
EMERGENCY AMBULANCE UNITS/LEVEL OF SERVICES BY ISLAND
STATE OF HAWAII, FISCAL YEAR 1984-85

Island	Level of Service		Total
	BLS	ALS	
Oahu	-	13	13
Hawaii	2	6	8
Maui	1	4	5
Molokai	-	1	1
Lanai	1	-	1
Kauai	1	2	3
Total	5	26	31

BLS = Basic Life Support
ALS = Advanced Life Support

TABLE 2
EMERGENCY AMBULANCE CALLS RESPONDED TO BY ISLAND
STATE OF HAWAII, CALENDAR YEARS 1983-85

Island	1983*	1984*	1985*
Oahu	26,597	24,869	27,407
Hawaii	4,868	4,889	4,535
Maui	3,242	3,419	3,752
Molokai	278	371	355
Lanai	39	50	80
Kauai	1,490	1,567	1,720
Total	36,514	35,165	37,849

* Preliminary data based on manual record count

LABORATORY SERVICES

The Laboratories Branch provides services to other state agencies, institutions and other Department of Health programs to enhance their effectiveness in the protection of the public's health and safety, to control the quality of the environment and to enforce the various state laws and regulations.

The services provided include air pollution chemistry; medical microbiology (bacteriology, mycobacteriology, mycology, parasitology, serology and virology); food and drug analyses; milk and milk product analyses; pesticide analyses; sanitary microbiology and environmental and sanitary chemistry. The branch also provides training opportunities for other laboratory personnel in the state, as well as consultation, with other laboratorians.

In fiscal year 1985, the branch continued to work with departmental programs to improve the quality and availability of laboratory services in the state. Some internal functions were streamlined, transferred or reduced to make available resources to meet higher priority demands. The INH drug monitoring for tuberculosis patients was initially transferred from the Chemistry Section to the Medical Microbiology Section and then with the concurrence of the Communicable Disease Division of the department, transferred to the Tuberculosis Control Branch. The move was made to provide more timely information to the program and was accomplished only after parallel studies were conducted to the satisfaction of both the branch and the control program. The transfer of this procedure made available resources in the Chemistry Section to enhance the pesticide testing capabilities of the section, as well as the improvement of serologic services, in the Medical Microbiology Section. The branch performed a total of 235,805 examinations on 186,635 specimens or samples received during the fiscal year.

The branch, like many of its counterpart public health laboratories in the nation is undergoing a transition to becoming more reference and consultatively oriented in its work, as opposed to its past history of high production. The need to transfer technology to other laboratories and to provide more sophisticated laboratory analyses and to provide services where none exist are problems to be continually addressed by the branch. The branch has continued to be recertified by the FDA to perform microbiological and chemical analyses on shellfish and milk; recertified by EPA to perform microbiological and chemical analyses on potable and non-potable waters; recertified by the EPA to perform air pollution monitoring analyses. The branch also continues to serve as a Salmonella typhi Phage Typing Center for the CDC and as a Collaboratoring Laboratory in the World Health Organization's Influenza Surveillance system. The medical bacteriology unit also serves as a reference laboratory for the Centers for Disease Control.

TABLE 1

NUMBER OF SAMPLES SUBMITTED TO VARIOUS SECTIONS OF THE LABORATORIES BRANCH AND NUMBER OF BACTERIOLOGICAL, PARASITOLOGICAL, SEROLOGICAL AND CHEMICAL EXAMINATIONS PERFORMED UPON THEM BY TYPE OF SPECIMEN AND ISLAND

STATE OF HAWAII - JULY 1984 TO JUNE 1985

Diseases or Type of Samples	All Laboratories		Oahu		Hawaii		Maui		Kauai	
	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations	Specimen/ Sample	Examinations
Total	186,635	235,805	169,045	210,252	8,009	13,280	6,524	8,073	3.057	4,200
Microbiology (Isolation)										
Enteric	1,292	5,864	1.093	4,961	69	347	115	508	15	48
Gonorrhea	88,162	92,326	82,457	86,432	1,882	1,984	2,557	2,600	1,266	1,310
Staphylococcus Phage..	839	1,598	839	1,598	-	-	-	-	-	-
Streptococcus	2,537	3,387	1,863	2,076	656	1,283	-	-	18	28
Tuberculosis	7,042	23,565	6,048	20,382	994	3,183	-	-	-	-
Miscellaneous Bacteriology	812	1,314	673	1,134	120	160	1	2	18	18
Mycology	456	739	230	445	217	275	9	19	-	-
Parasitology	517	707	236	236	17	15	263	455	1	1
Virology	1,114	1,399	1,114	1,399	-	-	-	-	-	-
Serology										
Syphilis	11,157	13,791	9,348	12,303	400	361	1,330	1,035	79	92
Non-Syphilis	321	1,058	155	891	166	167	-	-	-	-
Viral & Rickettsial..	4,685	4,685	4,685	4,685	-	-	-	-	-	-
Sanitary Microbiology										
Drinking Water	5,843	7,557	1,006	1,840	2,269	2.423	1,667	2,184	901	1,110
Pollution	962	3,329	487	1,715	254	922	97	345	124	347
Food Products	2,973	9,627	2,021	7,348	378	966	270	564	304	749
Food Poisoning	69	411	69	411	-	-	-	-	-	-
Environmental	161	518	67	172	62	246	-	-	32	100
Sanitary Chemistry										
Drinking Water	2,142	3,010	2,051	2,919	85	85	-	-	6	6
Pollution	5,620	7,313	5,600	7,289	16	16	-	-	4	8
Food Products	1,299	2,414	459	924	336	746	215	361	289	383
Pesticide	1,971	3,734	1,971	3,734	-	-	-	-	-	-
Toxicology	917	1,702	917	1,702	-	-	-	-	-	-
Clinical Chemistry	88	101	-	-	88	101	-	-	-	-
Air Pollution Chemistry	45,656	45,656	45,656	45,656	-	-	-	-	-	-

TABLE 2

INCIDENCE OF HUMAN SALMONELLA BY SEROTYPE AND AGE
CENTRAL LABORATORY ON OAHU
STATE OF HAWAII - JULY 1984 TO JUNE 1985

Group	Serotype	Total All Ages	Less than Six Months	Six Months to One Year	One Year to Three Years	Three Years to Ten Years	Ten Years to Twenty Years	Twenty Years and Over	Unknown
		350	57	42	51	36	12	128	24
A	paratyphi A	3						3	
	paratyphi A var. duzarro	1						1	
	agona	12	4	1	1	2		3	1
	bredeney	6	2		1	1		2	
	chester	1			1				
	derby	10	2	1	1	1		4	1
	heidelberg	10		2	2	2	1	3	
	java	2			2				
B	paratyphi B	1						1	
	saint-paul	5	1		2	1			1
	san diego	3		2	1				
	schwarzengrund	1		1					
	stanley	1	1						
	typhimurium	91	4	8	14	17	2	42	4
	typhimurium var. copenhagen	7	2	2	2				1
	choleraesuis	1						1	
	infantis	6	1		1		1	3	
	mbandaka	1				1			
	montevideo	12	1		2	2	3	3	1
C_1	ohio	1			1				
	oranienburg	1						1	
	oslo	6	1	1	2			1	1
	thompson	2			1			1	
	virchow	1						1	
	blockley	4				1		1	2
	bovis morbificans	1						1	
	hadar	5						5	
C_2	lindenburg	1						1	
	litchenfield	1						1	
	manhattan	1				1			
	muenchen	13	1	2	6			3	1
	newport	16	3	5	1	2		4	1

TABLE 2 (continued)

INCIDENCE OF HUMAN SALMONELLA BY SEROTYPE AND AGE
CENTRAL LABORATORY ON OAHU
STATE OF HAWAII - JULY 1984 TO JUNE 1985

Group	Serotype	Total All Ages	Less than Six Months	Six Months to One Year	One Year to Three Years	Three Years to Ten Years	Ten Years to Twenty Years	Twenty Years and Over	Unknown
C_3	albany	5	1	2	1			1	
	dublin	3						3	
	enteritidis	5	1					3	1
	panama	5			1	1	1	1	1
	typhi, phage type B_1	1						1	
D	typhi, phage type E_1	1					1		
	typhi, phage type E_2	1						1	
	typhi, phage type M_1	3				1	1	1	
	typhi, Degraded Vi	5						5	
	anatum	2						1	1
	give	5	1		1			3	
E_1	london	1	1						
	muenster	2						2	
	weltevreden	62	23	8	6	2	2	16	5
	drypool	1		1					
	lanka	1						1	
E_2	newbrunswick	3	1			1		1	
	newington	1	1						
E_4	senftenberg	1							1
F	aberdeen	6	2	4					
	gaminara	1	1						
I	hvittingfoss	1						1	
K	cerro	1		1					
L	minnesota	1		1					
M	pomona	1	1						
O	alachua	1							1
S	waycross	2	1					1	
U	houten	1			1				

TABLE 3

INCIDENCE OF SALMONELLA BY TYPE FROM NONHUMAN SOURCES
CENTRAL LABORATORY ON OAHU
STATE OF HAWAII - JULY 1984 TO JUNE 1985

Group	Salmonella	Total	Avian	Bovine	Canine	Feline	Gecko	Guinea Pig	Lizard	Monk Seal	Porcine	Rabbit
	derby	19					3				16	
	san-diego	2	2									
B	typhimurium	39	38								1	
	typhimurium var copenhagen	10	10									
	bareilly	2	2									
	infantis	4	3								1	
C_1	livingstone	2		2								
	ohio	2	2									
	muenchen	2										2
C_2	albany	1		1								
	eimsbuettel	2		2								
	dublin	2		2								
D	enteritidis	1	1									
	anatum	2		2								
	drypool	1		1								
E_1	muenster	7		7								
	weltevreden	12	8				1	1			2	
	poona	1							1			
G	havana	2								2		
L	minnesota	2								2		
K	cerro	9		8							1	
O	alachua	5		2	1	2						
TOTAL		129	66	27	1	2	4	1	1	4	21	2

TABLE 4

INCIDENCE OF PARASITES FROM HUMANS
CENTRAL LABORATORY ON OAHU
STATE OF HAWAII - JULY 1984 TO JUNE 1985

Total Number of Specimens Examined 236	Total Number of Specimens Positive 79	Total Number of Parasites Found 124

INTESTINAL PARASITES FOUND

ORGANISM	Number Found	ORGANISM	Number Found
PROTOZOA		HELMINTHS	
Sarcodia (Amabae)		Nematoda (Round Worms)	
Entamoeba histolytica	8	Enterobius vermicularis	2
Entamoeba hartmanni	3	Trichuris trichiura	34
Entamoeba coli	12	Ascaris lumbricoides	15
Endolimax nana	16	Hookworm	20
Iodamoeba butschlii	1	Strongyloides stercoralis	1
Mastigophora (Flagellates)		Cestoda (Tapeworms)	
Giardia lamblia	9	Taenia saginata	1
		Dipylidium caninum	1
		Unidentified Tapeworm	1

TABLE 5

INCIDENCE OF MYCOBACTERIA FROM HUMAN SOURCES
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII
July 1984 - June 1985

Mycobacterium	Specimen Source				
	Total	Sputum	Bronchial	Urine	Miscellaneous
Total	654	593	21	8	32
tuberculosis	141	114	4	3	3-lymph node 3-cervical node 3-lung tissue 3-skin swabs 1-gastric 1-vertebrae 1-CSF 1-ear swab 1-bone marrow 1-joint fluid 1-thoracentesis 1-right axilla
Group I (Photochromogen)					
kansasii	3	3	0	0	
marinum	3	0	0	0	3-skin swabs
simiae	1	1	0	0	
Group II (Scotochromogen)					
flavescens	18	18	0	0	
gordonae	146	141	1	3	1-gastric
scrofulaceum	32	30	1	0	1-gastric
Group III (Nonphotochromogen)					
avium-intracellulare complex	112	102	8	0	1-clavical node 1-tissue
gastri	6	6	0	0	
terrae complex	33	32	0	0	1-lung
triviale	2	2	0	0	
xenopi	1	1	0	0	
avium-intracellulare-scrofulaceum (MAIS)	1	1	0	0	
Group IV (Rapid Grower)					
chelonei	58	47	7	1	1-Pancreas 1-blood 1-RUL
fortuitum	94	92	0	1	1-lymph node
phlei	1	1	0	0	
vaccae	2	2	0	0	

TABLE 6

VIRAL ISOLATIONS
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - FISCAL YEAR 1985

TYPE OF SPECIMEN	NUMBER OF SPECIMENS			NUMBER OF EXAMINATIONS
	Received	Positive	Negative	
Throat Swabs	343	104	239	447
Fecal	37	5	32	42
Spinal Fluid	39	3	36	42
Blood	1	0	1	1
Tissue	5	0	5	5
Other	305	84	221	389
Genital Herpes	339	89	250	428
TOTAL	1,069	285	784	1,354

VIRAL AGENTS ISOLATED:

	NUMBER ISOLATED	
1) Throat Swabs:		
Adenovirus Type (?)	2	
ECHOvirus Type 9	1	
ECHOvirus Type 20	1	
Herpesvirus hominis	4	
Influenza A/Philippines/2/82 (H3N2)	70	
Influenza B/USSR/100/83	26	
2) Rectal/Fecal Swabs:		
Herpesvirus hominis	1	
3) Cerebrospinal Fluids:		
Coxsackievirus Type B-5	1	
ECHOvirus Type 9	1	
ECHOvirus Type 20	1	
4) Miscellaneous Specimens:		
ECHOvirus Type 20	1	(from a nasopharyngeal swab)
ECHOvirus Type 25	1	(from a swab of an undetermined site)
Herpesvirus hominis	154	(124 from genital area, 18 from skin specimens, 1 from an eyelid swab, 2 from tongue swabs, 9 from swabs of an undetermined site)
Influenza A/Philippines/2/82 (H3N2)	7	(from swabs of an undetermined site)
Influenza B/USSR/100/83	3	(from swabs of an undetermined site)

TABLE 7

VIRAL SEROLOGIES
CENTRAL LABORATORY ON OAHU

STATE OF HAWAII - FISCAL YEAR 1985

TYPE OF SPECIMEN	NUMBER OF SPECIMENS			NUMBER OF EXAMINATIONS
	Received	Positive	Negative	
Complement Fixation	3,626	65	3,561	3,626
Hemagglutination-Inhibition (PHA, LA)	306	7	299	306
Hepatitis B Surface Antigen (EIA)	70	0	70	70
Rubella (EIA-Diagnostic)	275	14	261	275
Rubella (EIA-Screening)	408	*	*	408
TOTAL	4,685	86	4,191	4,685
Rabies (FRA)	45	0	45	45

VIRAL AND RICKETTSIAL POSITIVES a/

Complement Fixation Antigens:	NUMBER OF POSITIVES a/
Adenovirus	1
Cytomegalovirus (AD-169)	3
Measles	53
Mycoplasma pneumoniae	3
Typhus	2
Varicella-Zoster	3

Hemagglutination-Inhibition Antigens:	NUMBER OF POSITIVES a/
Influenza A/Philippines/2/82 (H3N2)	3
Rubella	3

Enzyme Immunoassay (EIA)	NUMBER OF POSITIVES b/
Rubella	7

* Screening test for Rubella, Positive and Negative Terminology not applicable in this context.

a/ Paired sera showing four-fold or greater rise in antibody titier.

b/ Paired sera whose Enzyme Immunoassay Ratio indicates recent infection to agent.

PUBLIC HEALTH NURSING BRANCH

SUMMARY

Primary prevention and health promotion are the foundation of public health nursing practice. To accomplish this goal, public health nurses provide generalized comprehensive, and coordinated nursing services to individuals, families and groups at their place of residence, in private and parochial schools, care homes, day care centers, clinics, work sites, and community facilities. The nursing staff participates actively and collaboratively as members of multidisciplinary health care teams to meet the consumers' health needs. As public health nurses provide nursing care in the community, their foremost concern is the attainment and maintenance of optimal health states of Hawaii's residents.

Case Management Coordination Projects were expanded to reach out to the frail, vulnerable elderly on Kauai, central and rural Oahu areas. Projects on Hawaii and Maui continued to meet the growing needs of the islands' aged population.

Table 1 shows the number of cases served and the total visits made statewide. Over the past year, a 5.5% increase in the caseload from 32,170 to 33,934 cases is noted. Case increases continue with the infant and preschool children, school aged children, tuberculosis nondiagnosed, other communicable disease and selected chronic diseases. Visits increased by 11.5% from 108,788 to 121,308 visits. Except for maternity, visitations in all categories increased over the previous fiscal year.

More visits per case were made to those with disabilities and/or pathological conditions over those who received Health Guidance services only. Outbreaks of pertussis, rubella, and measles during the year also accounted for increase in visits.

Table 2 represents the type of clinic, the number of clinics, and the total number of clinic attendance statewide. There was a 5.7% decrease in the number of clinic sessions over the past year from 4,382 to 4,352 sessions. The clinic attendance decreased by 1.5% from 100,200 to 98,691. Attendance at these clinics is arranged to provide clients the opportunity to receive in-depth consultation and education services.

Table 3 shows public health nursing services provided to private and parochial schools and home visits made to school age children. There was an increase in school visits by 46.6% from 1,631 visits to 2,390 visits over the past year. Home visits to school age children increased by 77.6% from 8,936 to 15,478.

Table 4 shows the visits made to preschool age children. Data shows that 36.6% of all visits are primarily for this age group. Clinic data displayed on Table 2, likewise, shows 43.2% of all clinic sessions to be for well-children services.

Table 5 displays number of visits made to care homes and all visits to those age 60 years and over. There was a 24.2% increase in the number of care home visits from 462 to 574 visits for fiscal year 1985. As the aged population increases, nursing intervention services will show a concomitant increase.

Table 6 provides Child Health Conference data by type of clinic, number of sessions, and attendance by counties and state. There was a decrease or 5.7% in clinic sessions from 1,996 in 1984 to 1,882 in 1985. There also was a slight decrease in the attendance of 4.4% from 22,442 to 21,448 from the previous year.

TABLE 1
CASES ADMITTED TO PUBLIC HEALTH NURSING SERVICE AND VISITS MADE BY COUNTY
STATE OF HAWAII
FISCAL YEAR 1984-85

Type of Nursing Service	State		Honolulu		Hawaii		Kauai		Maui	
	Cases a/	Visits b/	Cases a/	Visits b/	Cases a/	Visits b/	Cases a/	Visits b/	Cases a/	Visits b/
Maternity	837	2,223	490	1,593	131	285	140	181	76	164
Infant & Preschool Child Health	15,256	51,170	9,103	36,081	2,964	7,175	852	2,059	2,337	5,855
School Age Child c/	2,249	5,778	1,478	3,950	372	743	111	375	288	710
Adult Health	3,273	7,069	2,019	4,629	147	453	753	1,233	354	754
Tuberculosis d/	7,402	21,713	4,031	9,807	1,083	4,843	626	1,893	1,662	5,170
Other Communicable Disease d/	729	2,233	225	950	153	490	66	220	285	573
Mentally Retarded	122	858	108	761	4	29	-	-	10	68
Other Developmental Disabilities	610	6,546	402	4,548	102	1,223	23	135	83	640
Other Crippled Children	1,056	10,489	542	6,648	297	2,262	82	626	135	953
Chronic Diseases	1,927	9,356	1,200	4,648	209	2,085	131	398	387	2,225
Emotional Problems	342	1,252	296	981	21	186	4	42	21	43
All Others	131	594	84	261	15	155	4	13	28	165
Not Home/Not Found		2,027		1,604		233		17		173
TOTALS	33,934	121,308	19,978	76,461	5,498	20,162	2,792	7,192	5,666	17,493

a/ Cases: Individuals admitted to nursing service for a particular condition.
b/ Visits: Personal contacts with health content.
c/ Health Guidance Only. Excludes visits to school children in other diagnostic categories.
d/ Includes diagnosed cases and contacts.

TABLE 2

CLINICS CONDUCTED BY PUBLIC HEALTH NURSING SERVICE BY TYPE OF CLINIC, NUMBER OF SESSIONS AND ATTENDANCE BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1984-85

Type of Clinic	State		Honolulu		Hawaii		Kauai		Maui	
	Session	Attendance	Session	Attendance	Session	Attendance	Session	Attendance	Session	Attendance
Well Child	1,882	21,448	878	11,914	571	5,008	140	1,188	293	3,338
School	77	1,613	59	1,173	5	269	3	41	10	130
Day Care	17	220	12	152	1	21	-	-	4	47
Adult Health	415	5,547	197	4,014	11	108	198	1,248	9	177
Cardiac a/	29	343	5	62	14	185	6	65	4	31
Neurology a/	11	51	-	-	8	36	-	-	3	15
Orthopedic a/	11	169	-	-	9	130	-	-	2	39
Other Crippled Children including Pediatric a/	8	40	-	-	2	9	-	-	6	31
Tuberculosis b/	1,717	63,169	790	40,017	345	8,012	185	4,895	397	10,245
Other Communicable Disease	1	22	1	22	-	-	-	-	-	-
Immunization	89	3,888	23	1,035	56	1,050	1	10	9	1,793
Leprosy	15	240	-	-	10	149	-	-	5	91
Others	80	1,941	38	769	3	6	35	1,133	4	33
TOTALS	4,352	98,691	2,003	59,158	1,035	14,983	568	8,580	746	15,970

a/ See Crippled Children Branch data

b/ This does not include Honolulu Chest Clinic

TABLE 3
PUBLIC HEALTH NURSING SERVICE TO SCHOOLS BY COUNTY a/
STATE OF HAWAII
FISCAL YEAR 1984-85

Type of School Health Program	State	Honolulu	Hawaii	Kauai	Maui
Visits to Schools b/	2,390	2,009	125	115	141
Visits Made to School Age Children	15,478	9,350	2,622	1,024	2,482
TOTALS	17,868	11,359	2,747	1,139	2,623

a/ Excludes Public Schools
b/ All diagnostic categories

TABLE 4
PUBLIC HEALTH NURSING SERVICE TO DAY CARE CENTERS BY COUNTY
STATE OF HAWAII
FISCAL YEAR 1984-85

Type of Day Care Program	State	Honolulu	Hawaii	Kauai	Maui
Visits to Day Care Centers*	877	610	143	22	102
Visits Made to Preschool Age Children	44,429	34,002	5,157	1,370	3,900
TOTALS	45,306	34,612	5,300	1,392	4,002

*All diagnostic categories

TABLE 5

PUBLIC HEALTH NURSING SERVICE TO CARE HOMES BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1984-85

Type of Care Home Program	State	Honolulu	Hawaii	Kauai	Maui
Visits to Care Home*	574	437	54	24	59
Visits Made to Elderly Over 60	11,835	4,972	2,898	1,255	2,710
TOTALS	12,409	5,409	2,952	1,279	2,769

*All diagnostic categories

TABLE 6

CHILD HEALTH CONFERENCES CONDUCTED BY PUBLIC HEALTH NURSING SERVICE BY CLINIC, NUMBER OF SESSIONS AND ATTENDANCE BY COUNTY

STATE OF HAWAII

FISCAL YEAR 1984-85

Type of Conference	State		Honolulu		Hawaii		Kauai		Maui	
	Session	Attendance	Session	Attendance	Session	Attendance	Session	Attendance	Session	Attendance
Medical	419	7,326	279	4,823	94	1,797	22	390	24	316
Nursing	1,463	14,122	599	7,091	477	3,211	118	798	269	3,022
TOTALS	1,882	21,448	878	11,914	571	5,008	140	1,188	293	3,338

SUMMARY

To promote optimal nutritional status and to reduce the risk of disease associated with diet through education, early detection and intervention is the goal of the Nutrition Branch. Nutrition is a key factor in the promotion of health, in the prevention of disease and in improving the quality of life.

Three major categories of services are provided by the Nutrition Branch:

1) nutrition education for the public,
2) consultations to agencies and individuals and inspections of hospitals and other facilities, and
3) nutrition screening and assessment.

Emphasis is placed on preventive aspects of nutrition. Accurate, up-to-date nutrition information is provided through pamphlets, newsletters and news articles, talks to community and student groups, workshops, exhibits at health fairs, T.V. and radio programs, and telephone calls. Budgetary constraints and vacant Public Health Nutritionist positions have limited nutrition services to the neighbor islands.

Nutrition consultations and direct services are provided to other programs within the department, other governmental agencies, community groups, professionals and the general public. The Public Health Nutritionists provide consultation and licensure services to hospitals, skilled nursing and intermediate care facilities, special treatment facilities and care homes to assist them in meeting dietary standards according to State and Federal regulations.

The Special Supplemental Food Program for Women, Infants and Children (WIC Program) funded by the United States Department of Agriculture is administered by the Nutrition Branch. Nutrition screening and assessment, nutrition education and nutritious food are provided to low income pregnant women, nursing mothers, infants and children up to age 5, who are at nutritional risk. In 1985 the WIC Program provided food vouchers to an average of 6624 participants each month. Nutrition assessment and diet counseling is ongoing and the total number reached was 59,625.

TABLE 1

NUTRITION BRANCH SERVICES
STATE OF HAWAII: 1985

Type of Nutrition Services	Number of Sessions	Number Reached or Participants
Nutrition Education		
Talks to community groups	35	1,217
Talks to students	30	865
Talks to senior citizens groups	12	473
Department of Health groups	7	91
Workshops	31	873
Radio and TV	22	---
Health Fairs	7	---
Nutrition Branch leaflets and booklets		92,814
Newsletters		2,400

	Number
Consultations and Inspections	
Care Homes	
Inspections	329
Consultations and Visits	160
Hospitals, Skilled Nursing Facilties and Intermediate Care Facilities	
Medicare Certficiations	38
Consultations	16
Special Treatment Facilities	
Inspections	16
Consultations and Visits	3
Day Care Centers	
Consultations	17
Other Agencies and Individuals	
Consultations	1780
Department of Health	
Consultations	268

Nutrition Assessment and Diet Counseling	Number Reached
Special Supplemental Food Program for Women, Infants and Children (WIC)	59,625*

*Participants receive nutrition assessment and diet counseling three or more times a year

MENTAL HEALTH DIVISION

MENTAL HEALTH DIVISION

The Mental Health Division provides both inpatient and outpatient services for a wide range of problems affecting disparate populations. The utilization patterns of services provide significant leads to understanding the nature, severity, and determinants of mental illness.

It is important to note that the tables in this year's statistical report as well as prior years, with the exception of 1984, are summarized by calendar year. The 1984 annual statistical data was summarized by fiscal year because of a one time change necessitated by a database conversion from the batch oriented Multi-State Information System (MSIS) to the online, network oriented Mental Health Field Assessment and Statistical Information System (MFASIS) which was completed in 1985.

The tables for calendar year 1985 have been completely redesigned and are different from that of all previously publishsed annual reports. The 1974 through 1981 reports examined demographic statistical information related to diagnosis, and the 1982 through 1984 reports displayed demographic information related to problems on admission.

Table 1 shows the Mental Health Division Movement Summary for the period 1973 - 1985 of actives, admissions, terminations, and unduplicated counts of clients.

Table 2 represents the total active clients as of the end of the year by age and Community Mental Health Centers.

Table 3 displays figures on admissions for the year by age and Community Mental Health Centers.

Table 4 displays demographic characteristics of clients served by ethnicity, age and sex for the entire year.

Table 5 shows demographic characteristics of clients admitted, active, and discharged for the year broken down by ethnicity.

Table 6 represents the referral source of admissions during the year by referral source, and the number of new admissions and readmissions.

Table 7 shows the reasons why a client was discharged.

TABLE 1

MENTAL HEALTH DIVISION MOVEMENT SUMMARY, 1973 - 1985

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984*	1985
Unduplicated Count of Patients Served	9851	10522	11101	11935	11806	11642	10713	10625	10689	10312	9970	9724	8891
Actives	6052	6500	7090	6979	6905	6886	6392	6328	6642	6287	6022	5692	6328
Admissions	5220	5073	5233	5533	5453	5441	4564	4696	4947	4885	4761	4307	3933
Terminations	4368	4618	4633	5684	5529	5522	5057	4759	5062	5155	5030	4887	4221

*For the Fiscal Year 1984 (7/1/83 to 6/30/84).

Mental Health Field Assessment and Statistical Information System

Age Summary Report
DEMOGRAPHIC CHARACTERISTICS OF ACTIVE CLIENTS
TABLE 2*

Division Wide Report

As of 12/31/85

	Oahu-Other Services		Central Oahu CMHC		Windward Oahu CMHC		Leeward Oahu CMHC		Diamond Head CMHC		Kalihi-Palama CMHC		Maui CMHC		East Hawaii CMHC	
	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/
AGE																
0 - 11	20	4.2	51	10.6	91	18.9	56	11.6	24	5.0	52	10.8	79	16.4	72	15.0
12 - 17	8	1.4	61	10.3	68	11.5	52	8.8	38	6.4	48	8.1	109	18.4	111	18.8
18 - 39	648	20.2	159	5.0	211	6.6	290	9.0	354	11.0	204	6.4	256	8.0	248	7.7
40 - 59	110	7.4	112	7.6	148	10.0	151	10.2	206	13.9	145	9.8	106	7.2	175	11.8
60 and over	7	1.3	39	7.0	48	8.6	95	17.0	102	18.2	50	8.9	47	8.4	64	11.4
Unknown							1	20.0					2	40.0	1	20.0
Total	793	12.5	422	6.7	566	8.9	645	10.2	724	11.4	499	7.9	599	9.5	671	10.6

Center:	West Hawaii CMHC		Kauai CMHC		North Hawaii CMHC		Children's Branch		Hawaii State Hospital		Missing or Unknown		Other		Total	
	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% b/
AGE																
0 - 11			8	1.7	1	0.2	12	2.5	15	3.1					481	7.6
12 - 17	4	0.7	41	6.9	4	0.7	3	0.5	44	7.4					591	9.3
18 - 39	240	7.5	193	6.0	37	1.2			371	11.6					3211	50.7
40 - 59	84	5.7	89	6.0	23	1.6			132	8.9					1481	23.4
60 and over	27	4.8	28	5.0	13	2.3			39	7.0					559	8.8
Unknown									1	20.0					5	0.1
Total	355	5.6	359	5.7	78	1.2	15	0.2	602	9.5					6328	100.0
Unduplicated total															5808	

* Numbers may not add up due to rounding.
a/ Percentage of Row.
b/ Percentage of Column.

Mental Health Field Assessment and Statistical Information System

Age Summary Report
DEMOGRAPHIC CHARACTERISTICS OF ADMISSION BY UNITS
TABLE 3*

Division Wide Report

From: 01/01/85 To: 12/31/85

	Oahu-Other Services		Central Oahu CMHC		Windward Oahu CMHC		Leeward Oahu CMHC		Diamond Head CMHC		Kalihi-Palama CMHC		Maui CMHC		East Hawaii CMHC	
	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/
AGE																
0 - 11	37	9.1	53	13.1	97	24.0	31	7.7	37	9.1	43	10.6	23	5.7	37	9.1
12 - 17	9	1.9	74	15.4	71	14.7	35	7.3	61	12.7	45	9.3	33	6.8	42	8.7
18 - 39	33	1.5	122	5.6	97	4.4	151	6.9	307	14.1	201	9.2	322	14.8	85	3.9
40 - 59	10	1.5	37	5.6	33	5.0	49	7.5	85	13.0	66	10.1	87	13.3	27	4.1
60 and over			6	3.1	2	1.0	14	7.3	25	13.0	24	12.5	14	7.3	7	3.6
Unknown							1	6.7	1	6.7			3	20.0	1	6.7
Total	89	2.3	292	7.4	300	7.6	281	7.2	516	13.1	379	9.7	482	12.3	199	5.1

Center:	West Hawaii CMHC		Kauai CMHC		North Hawaii CMHC		Children's Branch		Hawaii State Hospital		Missing or Unknown		Other		Total	
	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% a/	#	% b/
AGE																
0 - 11			5	1.2	1	0.2	17	4.2	24	5.9					405	10.3
12 - 17	5	1.0	18	3.7	5	1.0	2	0.4	82	17.0					482	12.3
18 - 39	127	5.8	235	10.8	36	1.6			467	21.4					2183	55.5
40 - 59	32	4.9	91	13.9	16	2.4			123	18.8					656	16.7
60 and over	8	4.2	36	18.8	13	6.8			43	22.4					192	4.9
Unknown											9	60.0			15	0.4
Total	172	4.4	385	9.8	71	1.8	19	0.5	739	18.8	9	0.2			3933	100.0
Unduplicated total															3268	

* Numbers may not add up due to rounding.
a/ Percentage of Row.
b/ Percentage of Column.

Mental Health Field Assessment and Statistical Information System

ETHNIC SUMMARY REPORT BY AGE AND SEX
DEMOGRAPHIC CHARACTERISTICS OF CLIENTS SERVED BY AGE AND SEX
TABLE 4*

DIVISION

Period: 01/01/85 thru 12/31/85

ETHNICITY	0 — 11						12 — 17						18 — 39					
	MALE		FEMALE		TOTAL		MALE		FEMALE		TOTAL		MALE		FEMALE		TOTAL	
	#	% a/	#	% a/	#	% b/	#	% a/	#	% a/	#	% b/	#	% a/	#	% a/	#	% b/
Alaskan Native													2	100.0			2	50.0
American Indian	2	100.0			2	7.4			2	100.0	2	7.4	17	77.3	5	22.7	22	81.5
Black	14	82.4	3	17.6	17	14.9	9	64.3	5	35.7	14	12.3	37	60.7	24	39.3	61	53.5
Cambodian			1	100.0	1	9.1	1	100.0			1	9.1	6	75.0	2	25.0	8	72.7
Caucasian	95	72.5	36	27.5	131	7.1	103	56.0	81	44.0	184	10.0	605	56.5	466	43.5	1071	58.0
Chinese	9	69.2	4	30.8	13	8.0	7	38.9	11	61.1	18	11.0	36	48.6	38	51.4	74	45.4
Cuban															2	100.0	2	100.0
Fijian													3	100.0			3	42.9
Filipino	21	67.7	10	32.3	31	4.3	54	66.7	27	33.3	81	11.2	256	64.3	142	35.7	398	55.2
Hawaiian	10	76.9	3	23.1	13	7.1	13	68.4	6	31.6	19	10.4	58	56.9	44	43.1	102	55.7
Japanese	29	74.4	10	25.6	39	3.4	35	53.8	30	46.2	65	5.7	288	61.5	180	38.5	468	40.9
Korean	5	100.0			5	4.7	5	62.5	3	37.5	8	7.5	39	65.0	21	35.0	60	56.6
Laotian													3	100.0			3	100.0
Mexican							1	25.0	3	75.0	4	11.4	11	50.0	11	50.0	22	62.9
Micronesian							1	100.0			1	10.0	6	100.0			6	60.0
Mixed	86	88.7	11	11.3	97	21.4	79	73.8	28	26.2	107	23.6	149	75.3	49	24.7	198	43.6
Okinawan	1	33.3	2	66.7	3	7.3	2	100.0			2	4.9	14	70.0	6	30.0	20	48.8
Part Hawaiian	117	74.5	40	25.5	157	16.8	84	66.7	42	33.3	126	13.5	300	63.3	174	36.7	474	50.7
Portuguese	14	77.8	4	22.2	18	5.2	18	81.8	4	18.2	22	6.4	94	65.7	49	34.3	143	41.3
Puerto Rican	6	85.7	1	14.3	7	5.7	5	38.5	8	61.5	13	10.7	41	70.7	17	29.3	58	47.5
Samoan	7	63.6	4	36.4	11	15.1	12	75.0	4	25.0	16	21.9	19	61.3	12	38.7	31	42.5
Tongan													6	100.0			6	100.0
Vietnamese	1	100.0			1	3.3	1	50.0	1	50.0	2	6.7	15	65.2	8	34.8	23	76.7
Other Asian															3	100.0	3	42.9
Other Hispanic	1	100.0			1	5.6			1	100.0	1	5.6	8	66.7	4	33.3	12	66.7
Other Pac Isle			1	100.0	1	33.3												
Other + Unknown	223	69.5	98	30.5	321	7.7	236	62.8	140	37.2	376	9.1	1494	62.0	915	38.0	2409	58.0
TOTAL	641	73.8	228	26.2	869	8.2	666	62.7	396	37.3	1062	10.1	3507	61.8	2172	38.2	5679	53.8
Unduplicated Total	587	73.7	210	26.3	797	9.0	598	62.0	367	38.0	965	10.9	2855	61.0	1826	39.0	4681	52.6

* Numbers may not add up due to rounding.
a/ Percentage of row within age group.
b/ Percentage of row total.
c/ Percentage of males/females for this ethnic total.
d/ Percentage of column total.
e/ Less than .1 percent.

Mental Health Field Assessment and Statistical Information System

ETHNIC SUMMARY REPORT BY AGE AND SEX

DEMOGRAPHIC CHARACTERISTICS OF CLIENTS SERVED BY AGE AND SEX
TABLE 4*
(continued)

DIVISION

Period: 01/01/85 thru 12/31/85

ETHNICITY	40 --- 59						60+						TOTAL					
	MALE		FEMALE		TOTAL		MALE		FEMALE		TOTAL		MALE		FEMALE		TOTAL	
	#	% a/	#	% a/	#	% b/	#	% a/	#	% a/	#	% b/	#	% c/	#	% c/	#	% d/
Alaskan Native	2	100.0			2	50.0							4	100.0			4	e/
American Indian	1	100.0			1	3.7							20	74.1	7	25.9	27	0.3
Black	14	73.7	5	26.3	19	16.7	2	66.7	1	33.3	3	2.6	76	66.7	38	33.3	114	1.1
Cambodian	1	100.0			1	9.1							8	72.7	3	27.3	11	0.1
Caucasian	159	42.9	212	57.1	371	20.1	35	39.8	53	60.2	88	4.8	997	54.0	848	46.0	1845	17.5
Chinese	20	48.8	21	51.2	41	25.2	6	35.3	11	64.7	17	10.4	78	47.9	85	52.1	163	1.5
Cuban															2	100.0	2	e/
Fijian	4	100.0			4	57.1							7	100.0			7	0.1
Filipino	73	44.5	91	55.5	164	22.7	27	57.4	20	42.6	47	6.5	431	59.8	290	40.2	721	6.8
Hawaiian	23	59.0	16	41.0	39	21.3	6	60.0	4	40.0	10	5.5	110	60.1	73	39.9	183	1.7
Japanese	145	40.4	214	59.6	359	31.4	102	47.9	111	52.1	213	18.6	599	52.4	545	47.6	1144	10.8
Korean	9	40.9	13	59.1	22	20.8	5	45.5	6	54.5	11	10.4	63	59.4	43	40.6	106	1.0
Laotian													3	100.0			3	e/
Mexican	7	77.8	2	22.2	9	25.7							19	54.3	16	45.7	35	0.3
Micronesian							3	100.0			3	30.0	10	100.0			10	0.1
Mixed	22	45.8	26	54.2	48	10.6	1	25.0	3	75.0	4	0.9	337	74.2	117	25.8	454	4.3
Okinawan	8	66.7	4	33.3	12	29.3			4	100.0	4	9.8	25	61.0	16	39.0	41	0.4
Part Hawaiian	73	50.0	73	50.0	146	15.6	14	43.8	18	56.3	32	3.4	588	62.9	347	37.1	935	8.9
Portuguese	52	44.4	65	55.6	117	33.8	19	41.3	27	58.7	46	13.3	197	56.9	149	43.1	346	3.3
Puerto Rican	27	73.0	10	27.0	37	30.3	4	57.1	3	42.9	7	5.7	83	68.0	39	32.0	122	1.2
Samoan	6	50.0	6	50.0	12	16.4	3	100.0			3	4.1	47	64.4	26	35.6	73	0.7
Tongan													6	100.0			6	0.1
Vietnamese	3	100.0			3	10.0			1	100.0	1	3.3	20	66.7	10	33.3	30	0.3
Othr Asian	3	75.0	1	25.0	4	57.1							3	42.9	4	57.1	7	0.1
Other Hispanic	1	50.0	1	50.0	2	11.1	1	50.0	1	50.0	2	11.1	11	61.1	7	38.9	18	0.2
Other Pac Isle			1	100.0	1	33.3			1	100.0	1	33.3			3	100.0	3	e/
Other + Unknown	365	48.4	389	51.6	754	18.2	129	44.5	161	55.5	290	7.0	2447	59.0	1703	41.0	4150	39.3
TOTAL	1018	47.0	1150	53.0	2168	20.5	357	45.7	425	54.3	782	7.4	6189	58.6	4371	41.4	10560	100.0
Unduplicated Total	833	46.9	943	53.1	1776	20.0	295	43.9	377	56.1	672	7.6	5168	58.1	3723	41.9	8891	100.0

* Numbers may not add up due to rounding.
a/ Percentage of row within age group.
b/ Percentage of row total.
c/ Percentage of males/females for this ethnic total.
d/ Percentage of column total.
e/ Less than .1 percent.

Mental Health Field Assessment and Statistical Information System

ETHNIC SUMMARY REPORT
DEMOGRAPHIC CHARACTERISTICS OF CLIENTS ADMITTED, ACTIVE, AND DISCHARGED
TABLE 5*

DIVISION

Period: 01/01/85 thru 12/31/85

Ethnic Group	Carryover		New Admits		Readmits		Discharge		Net Total		Total	
	#	% a/	#	% a/	#	% a/	#	% b/	#	% c/	#	% c/
Alaskan Native	1	25.0	1	25.0	2	50.0	1	25.0	3	d/	4	d/
American Indian	7	25.9	12	44.4	8	29.6	13	48.1	14	0.2	27	0.3
Black	32	28.1	42	36.8	40	35.1	54	47.4	60	0.9	114	1.1
Cambodian	3	27.3	4	36.4	4	36.4	9	81.8	2	d/	11	0.1
Caucasian	556	30.2	751	40.8	535	29.0	861	46.7	981	15.5	1842	17.4
Chinese	72	44.2	45	27.6	46	28.2	57	35.0	106	1.7	163	1.5
Cuban					2	100.0	1	50.0	1	d/	2	d/
Fijian	4	57.1	1	14.3	2	28.6	2	28.6	5	0.1	7	0.1
Filipino	355	49.4	163	22.7	200	27.9	267	37.2	451	7.1	718	6.8
Hawaiian	65	35.9	68	37.6	48	26.5	59	32.6	122	1.9	181	1.7
Japanese	691	60.6	159	13.9	291	25.5	361	31.6	780	12.3	1141	10.8
Korean	58	54.7	21	19.8	27	25.5	40	37.7	66	1.0	106	1.0
Laotian	1	33.3	2	66.7			1	33.3	2	d/	3	d/
Mexican	3	8.6	27	77.1	5	14.3	20	57.1	15	0.2	35	0.3
Micronesian	5	50.0	2	20.0	3	30.0	4	40.0	6	0.1	10	0.1
Mixed	171	37.8	157	34.7	124	27.4	195	43.1	257	4.1	452	4.3
Okinawan	19	46.3	8	19.5	14	34.1	14	34.1	27	0.4	41	0.4
Part Hawaiian	435	46.7	230	24.7	267	28.6	364	39.1	568	9.0	932	8.8
Portuguese	170	49.9	55	16.1	116	34.0	123	36.1	218	3.4	341	3.2
Puerto Rican	54	44.6	34	28.1	33	27.3	47	38.8	74	1.2	121	1.1
Samoan	30	41.7	25	34.7	17	23.6	38	52.8	34	0.5	72	0.7
Tongan	3	50.0			3	50.0	3	50.0	3	d/	6	0.1
Vietnamese	10	33.3	12	40.0	8	26.7	10	33.3	20	0.3	30	0.3
Other Asian	3	42.9	2	28.6	2	28.6	5	71.4	2	d/	7	0.1
Other Hispanic	8	44.4	6	33.3	4	22.2	10	55.6	8	0.1	18	0.2
Other Pac Isle	1	33.3	2	66.7					3	d/	3	d/
Other	3870	92.7	184	4.4	119	2.9	1662	39.8	2511	39.6	4173	39.5
TOTAL	6627	62.7	2013	19.1	1920	18.2	4221	40.0	6339	100.0	10560	100.0
Unduplicated Total											8891	

* Numbers may not add up due to rounding.
a/ Percentage of row Carryover + New Admits + Readmits Total.
b/ Percentage of row Net Total + Discharge.
c/ Percentage of Column.
d/ Less than .1 percent.
Net Total = Carryover + New Admits + Readmits - Discharge
Total = Net Total + Discharge

Mental Health Field Assessment and Statistical Information System

REFERRAL SOURCE OF ADMISSIONS (DUPLICATED COUNT)
TABLE 6*

Division Wide Report
Period: 01/01/85 thru 12/31/85

REFERRAL SOURCE	New Admissions		Readmissions		Total	
	#	% a/	#	% a/	#	% b/
Community Programs						
Mental Health Center	78	28.16	199	71.84	277	57.23
Mental Health Community Program	32	43.84	41	56.16	73	15.08
Drug Treatment Program	15	71.43	6	28.57	21	4.34
Alcohol Treatment Program	21	63.64	12	36.36	33	6.82
CRSP	36	48.65	38	51.35	74	15.29
Nursing Home	1	16.67	5	83.33	6	1.24
Subtotal	183	37.81	301	62.19	484	*12.31*
Hospital						
General Hospital	112	30.27	258	69.73	370	60.86
Psychiatric Hospital	32	24.62	98	75.38	130	21.38
State Hospital	3	2.78	105	97.22	108	17.76
Subtotal	147	24.18	461	75.82	608	*15.46*
Private Professionals						
Psychiatric	58	43.94	74	56.06	132	48.71
Other Physician	56	71.79	22	28.21	78	28.78
Other Mental Health Professionals	37	75.51	12	24.49	49	18.08
Lawyer	11	91.67	1	8.33	12	4.43
Subtotal	162	59.78	109	40.22	271	*6.89*
Schools						
Public	179	84.43	33	15.57	212	50.12
Private	34	89.47	4	10.53	38	8.98
DOE Spec. Ed.	120	72.29	46	27.71	166	39.24
Community College	4	80.00	1	20.00	5	1.18
University	1	50.00	1	50.00	2	0.47
Subtotal	338	79.91	85	20.09	423	*10.76*
Individual						
Self	220	51.64	206	48.36	426	51.14
Family	168	63.16	98	36.84	266	31.93
Friend	93	76.23	29	23.77	122	14.65
Employer	10	90.91	1	9.09	11	1.32
Clergy	4	50.00	4	50.00	8	0.96
Subtotal	495	59.42	338	40.58	833	*21.18*

* Numbers may not add up due to rounding.
a/ Percentage of Row.
b/ Percentage of Column.

Mental Health Field Assessment and Statistical Information System

REFERRAL SOURCE OF ADMISSIONS (DUPLICATED COUNT)
TABLE 6*

Division Wide Report
(Continued)

Period: 01/01/85 thru 12/31/85

REFERRAL SOURCE	New Admissions		Readmissions		Total	
	#	% a/	#	% a/	#	% b/
Government Agencies						
Law Enforcement	27	32.14	57	67.86	84	12.10
Adult Court	86	34.82	161	65.18	247	35.59
Family Court	89	64.03	50	35.97	139	20.03
Correction Agency	9	23.08	30	76.92	39	5.62
Probation and Parole	19	43.18	25	56.82	44	6.34
V.A.	4	33.33	8	66.67	12	1.73
Developmental Disabilities	2	50.00	2	50.00	4	0.58
Vocational Rehabilitation	17	65.38	9	34.62	26	3.75
Public Welfare	70	74.47	24	25.53	94	13.54
Military	2	40.00	3	60.00	5	0.72
Subtotal	325	46.83	369	53.17	694	*17.65*
Out of State	2	66.67	1	33.33	3	*0.08*
Other	361	58.51	256	41.49	617	*15.69*
Total	2013	51.18	1920	48.82	3933	**100.00**

* Numbers may not add up due to rounding.
a/ Percentage of Row.
b/ Percentage of Column.

Mental Health Field Assessment and Statistical Information System

REASON FOR DISCHARGE
TABLE 7*

Division Wide Report

PERIOD: 01/01/85 thru 12/31/85

REASON FOR DISCHARGE	#	%
Treatment Completed	1553	36.79
Transferred To ADMH Program	102	2.42
Non-compliance w/ Program Rules	65	1.54
Against Clinical Advice	76	1.80
Refused Treatment	283	6.70
Patient Moved	294	6.97
Incarcerated/Hospitalized	273	6.47
No Service Within Last 60 Days	787	18.64
Disappeared--Whereabouts Unknown	101	2.39
Died	29	.69
Other/Missing	658	15.59
TOTAL	4221	100.00

* Numbers may not add up due to rounding.

REFUGEE SCREENING PROJECT

NARRATIVE

The Health Care for Refugees (HCFR) Project is administered by the State of Hawaii, Department of Health, and is federally-funded by the U.S. PHS, Centers for Disease Control, to provide coordination of health, tuberculosis and dental screening to Hawaii's refugee arrivals. The Project also maintains a refugee health registry to monitor the health status of Hawaii's refugee population and to collect health data for state and federal informational purposes.

Of Hawaii's estimated 6,700 refugee population, approximately 95% have come from Southeast Asia (Vietnam, Laos or Cambodia). In 1984-85, over 94% of Hawaii's 331 new refugee arrivals received health screening, and 98% of those screened had one or more health problems noted at the time of screening. Some of the more common refugee health problems included tuberculosis (71% with positive TB skin tests, and 10% with positive chest-x-rays), parasites (43%), dental disease (94%), anemia (30%), skin conditions, and other less prevalent and primarily personal health problems, as well as general lack of adequate knowledge about health, disease, and the U.S. health care system. The HCFR Project's findings reflect those generally seen in similar refugee health screening programs across the country. The initial health care screening system coordinated by the HCFR Project involves the Department of Health and other state agencies, voluntary resettlement and other community agencies, as well as local private medical and dental providers.

TABLE 1

DEMOGRAPHIC BREAKDOWN OF REFUGEES ENTERING HAWAII (Primary Arrivals[a/])

July 1, 1984 - June 30, 1985

AGE (years)	Country of Origin								TOTAL	
	VIETNAM		LAOS		CAMBODIA		Other[b/]			
	Sex		Sex		Sex		Sex			
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	Number	Rounded off Percent
Under 1 year	0	1	1	1	1	0	0	0	4	1.2
1 - 4	1	3	5	4	3	2	0	0	18	5.4
5 - 9	9	7	3	5	0	2	0	0	26	7.9
10 - 14	17	12	3	8	1	1	0	0	42	12.7
15 - 19	28	16	10	5	5	2	2	1	69	20.8
20 - 34	35	16	11	15	5	5	5	3	95	28.7
35 - 44	9	10	0	2	1	4	0	0	26	7.9
45 - 64	16	11	4	4	1	0	1	1	38	11.5
65 or Older	2	7	1	3	0	0	0	0	13	3.9
TOTAL Number	117	83	38	47	17	16	8	5	331[c/]	
TOTAL Percent	60.4%		25.7%		10.0%		3.9%			100.0%

a/ - Primary arrivals refers to U.S. arrival via Hawaii; does not include secondary refugee arrivals from other states.
b/ - Afghani and European refugees.
c/ - Estimated number of Southeast Asian refugees living in Hawaii totals 6,700 as of December 1985 (source: U.S. Office of Refugee Resettlement, December 1985).

WAIMANO
TRAINING SCHOOL
AND
HOSPITAL DIVISION

WAIMANO TRAINING SCHOOL AND HOSPITAL

SUMMARY

The population of Waimano continues to decline over the years, reflecting the emphasis on deinstitutionalization. However, the decline is not as rapid as in past years due to the difficulty in making successful community placements. As the level of functioning of the retarded patients is lowered, the difficulty in management is conversely increased.

On September 1, 1983, Waimano implemented the Home and Community Based Services Program. There were 32 residents in the program as of June 30, 1985. These residents are under Waimano's supervision and control and statistics will be reflected as in-house and community-based.

Table 1 shows that in the past year of operation, the population decreased by 4 patients, from 364 at the start to 360 at the end. The distribution of population at the end of the year shows 328 in-house and 32 community-based residents. New admissions remained the same from previous years, as did direct discharges. Figures for both Returns from Community Placement (10) and Community Placements (9) show a duplicated count of residents moving in and out of Waimano. Actual revocations of community placements was 1.

Table 2 shows that the trends in the category of classification remain about the same as in previous years, with the predominance of residents in the "Profound" category.

TABLE 1
WAIMANO TRAINING SCHOOL & HOSPITAL
STATISTICAL MOVEMENT OF PATIENTS BY FISCAL YEAR
STATE OF HAWAII: FISCAL YEAR 1984-85

Waimano Population	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85
Institution								
Patients in residence at start	535	482	446	423	397	385	375	364
Patients added during the year	66	84	65	63	53	31	123	199
Admissions during the year	13	13	12	7	6	10	2	2
Returns from community placement	53	71	53	56	47	21	29	10
Patients removed from Hospital during the year	119	120	88	89	65	41	134	203
Direct discharge	4	5	3	2	-	2	-	-
Deaths in hospital	14	6	6	7	8	5	4	7
Community placements (Includes ret. to CP)	101	109	79	80	57	34	38	9
Patients in residence at end of year	482	446	423	397	385	375	364[a/]	360[b/]

[a/]Includes 16 residents in the Home and Community Based Services Program and carried as Waimano's population.
[b/]Includes 32 residents in the Home and Community Based Services Program and carried as Waimano's population.

TABLE 2
RESIDENT POPULATION, WAIMANO, JUNE 30
DISTRIBUTION BY YEAR AND MEASURED INTELLIGENCE
STATE OF HAWAII: FISCAL YEAR 1984-85

	Resident Population on June 30							
	1978	1979	1980	1981	1982	1983	1984	1985
Total	482	446	423	397	385	375	364	360
I. Mild Educable	24	7	9	10	13	12	9	8
II. Moderate Trainable	72	35	30	29	26	26	33	34
III. Severe	174	65	53	53	53	59	58	61
IV. Profound	207	338	328	305	293	278	264	257
Borderline	4	-	2	-	-	-	-	-
Undetermined Intelligence	1	1	1	-	-	-	-	-